



**Test Report
(SVHC)**

No.: EBOXXXXXXX-CXXX

Date: July 12, 2017

Page 1 of 10

XXXXXXX

XXXXXXXXXXXXXXXXXX

The following sample(s) was/were submitted and identified on behalf of the applicant as:

XXXXXX

EBO Job No. : EBOXXXXXXX-CXXX

Model No. : /

Date of Sample Received : July 4, 2017

Testing Period : July 4, 2017 To July 12, 2017

Test Requested : As requested by client, SVHC screening is performed according to:
Specified Substances of Very High Concern (SVHC) screening
Based on the SVHC candidate list published by European Chemicals Agency
(ECHA) on 7 July, 2017 regarding Regulation (EC) No 1907/2006
concerning REACH.

Test Method : Please refer to next page(s).

Test Result(s) : Please refer to next page(s).

Summary:

According to the specified scope and analytical techniques, concentrations of
tested SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.

PASS

Signed for and on behalf of

Kevin Wang

Kevin Wang



EBO assures objectivity and justness of the test, and fulfill the duty of confidentiality for applicant's information. Applicant should undertake responsibility for the authenticity of submitted sample and information. Unless otherwise stated the results shown in the report refer only to the sample(s) tested. EBO shall not have any economic and legal responsibility because the use of testing result, or direct and indirect losses, and all legal consequences because of the result. This report is invalid without signatures of approver and special seal for inspection of EBO, or it has been reproduced in full or part. This Report is issued by EBO subject to its General Conditions of Service. The test report shall not be published as advertisement without the written approval of EBO. Any unauthorized alteration, forgery or falsification of the content is unlawful, offenders may be prosecuted to the fullest extent of the law.

Test Sample:Sample Description:**Specimen No.****EBO Sample ID****Description**

1

EBOXXXXXXX-CXXX.001

/

Test Method:

EBO In-House method EBO-TOP-092-01, EBO-TOP-092-02, Analyzed by ICP-OES, GC-MS
Colorimetric method/HPLC and UV-VIS.

Remark:

- (1) The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:
<http://echa.europa.eu/web/guest/candidate-list-table>
These lists are under evaluation by ECHA and may subject to change in the future.

(2) Concerning article(s):

In accordance with Regulation (EC) No 1907/2006, any EU 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) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

EBO adopts the interpretation of ECHA for SVHC in article unless indicated otherwise.

(3) Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC

EBO assures objectivity and justness of the test, and fulfill the duty of confidentiality for applicant's information. Applicant should undertake responsibility for the authenticity of submitted sample and information. Unless otherwise stated the results shown in the report refer only to the sample(s) tested. EBO shall not have any economic and legal responsibility because the use of testing result, or direct and indirect losses, and all legal consequences because of the result. This report is invalid without signatures of approver and special seal for inspection of EBO, or it has been reproduced in full or part. This Report is issued by EBO subject to its General Conditions of Service. The test report shall not be published as advertisement without the written approval of EBO. Any unauthorized alteration, forgery or falsification of the content is unlawful, offenders may be prosecuted to the fullest extent of the law.

concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No.1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

(4) Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and No 790/2009, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as dangerous according Dangerous Preparations Directive 1999/45/EC or classified as hazardous under the CLP Regulation (EC) No 1272/2008, when their concentrations are equal to, or greater than, those defined in the Article 3(3) of 1999/45/EC or the lower values given in Part 3 of Annex VI of Regulation (EC) No. 1272/2008; or
- a mixture is not classified as dangerous under Directive 1999/45/EC, but contains either:

- (a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits.

(5) If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

EBO assures objectivity and justness of the test, and fulfill the duty of confidentiality for applicant's information. Applicant should undertake responsibility for the authenticity of submitted sample and information. Unless otherwise stated the results shown in the report refer only to the sample(s) tested. EBO shall not have any economic and legal responsibility because the use of testing result, or direct and indirect losses, and all legal consequences because of the result. This report is invalid without signatures of approver and special seal for inspection of EBO, or it has been reproduced in full or part. This Report is issued by EBO subject to its General Conditions of Service. The test report shall not be published as advertisement without the written approval of EBO. Any unauthorized alteration, forgery or falsification of the content is unlawful, offenders may be prosecuted to the fullest extent of the law.

Test Results: (substances in the Candidate List of SVHC)

Batch	No.	Substance Name	CAS No.	EC No.	Concentration (%)	RL (%)
I	1	Cobalt dichloride*	7646-79-9	231-589-4	N.D.	0.005
I	2	Diarsenic pentaoxide*	1303-28-2	215-116-9	N.D.	0.005
I	3	Diarsenic trioxide*	1327-53-3	215-481-4	N.D.	0.005
I	4	Lead hydrogen arsenate*	7784-40-9	232-064-2	N.D.	0.005
I	5	Sodium dichromate*	7789-12-0, 10588-01-9	234-190-3	N.D.	0.005
II	6	Lead chromate*	7758-97-6	231-846-0	N.D.	0.005
II	7	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	235-759-9	N.D.	0.005
II	8	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	215-693-7	N.D.	0.005
III	9	Ammonium dichromate*	7789-09-5	232-143-1	N.D.	0.005
III	10	Boric acid*	10043-35-3 11113-50-1	233-139-2 234-343-4	N.D.	0.005
III	11	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	215-540-4	N.D.	0.005
III	12	Potassium chromate*	7789-00-6	232-140-5	N.D.	0.005
III	13	Potassium dichromate*	7778-50-9	231-906-6	N.D.	0.005
III	14	Sodium chromate*	7775-11-3	231-889-5	N.D.	0.005
III	15	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	235-541-3	N.D.	0.005
IV	16	Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid*	7738-94-5 - 13530-68-2	231-801-5 - 236-881-5	N.D.	0.005
IV	17	Chromium trioxide*	1333-82-0	215-607-8	N.D.	0.005

EBO assures objectivity and justness of the test, and fulfill the duty of confidentiality for applicant's information. Applicant should undertake responsibility for the authenticity of submitted sample and information. Unless otherwise stated the results shown in the report refer only to the sample(s) tested. EBO shall not have any economic and legal responsibility because the use of testing result, or direct and indirect losses, and all legal consequences because of the result. This report is invalid without signatures of approver and special seal for inspection of EBO, or it has been reproduced in full or part. This Report is issued by EBO subject to its General Conditions of Service. The test report shall not be published as advertisement without the written approval of EBO. Any unauthorized alteration, forgery or falsification of the content is unlawful, offenders may be prosecuted to the fullest extent of the law.

Batch	No.	Substance Name	CAS No.	EC No.	Concentration (%)	RL (%)
IV	18	Cobalt carbonate*	513-79-1	208-169-4	N.D.	0.005
IV	19	Cobalt dinitrate*	10141-05-6	233-402-1	N.D.	0.005
IV	20	Cobalt sulphate*	10124-43-3	233-334-2	N.D.	0.005
V	21	Strontium chromate*	7789-06-2	232-142-6	N.D.	0.005
VI	22	Aluminosilicate Refractory Ceramic Fibres (Al-RCF)* ▲	650-017-00-8 (Index no.)	-	N.D.	0.005
VI	23	Arsenic acid*	7778-39-4	231-901-9	N.D.	0.005
VI	24	Calcium arsenate*	7778-44-1	231-904-5	N.D.	0.005
VI	25	Dichromium tris(chromate) *	24613-89-6	246-356-2	N.D.	0.005
VI	26	Lead diazide, Lead azide*	13424-46-9	236-542-1	N.D.	0.005
VI	27	Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	N.D.	0.005
VI	28	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	234-329-8	N.D.	0.005
VI	29	Trilead diarsenate*	3687-31-8	222-979-5	N.D.	0.005
VI	30	Zirconia Aluminosilicate Refractory Ceramic Fibres (ZrAl-RCF) *▲	650-017-00-8 (Index no.)	-	N.D.	0.005
VII	31	Diboron trioxide *	1303-86-2	215-125-8	N.D.	0.005
VIII	32	Lead bis(tetrafluoroborate) *	13814-96-5	237-486-0	N.D.	0.005
VIII	33	Lead cyanamidate*	20837-86-9	244-073-9	N.D.	0.005
VIII	34	Lead dinitrate*	10099-74-8	233-245-9	N.D.	0.005
VIII	35	Lead monoxide*	1317-36-8	215-267-0	N.D.	0.005
VIII	36	Lead oxide sulphate*	12036-76-9	234-853-7	N.D.	0.005
VIII	37	Lead tetroxide (orange lead) *	1314-41-6	215-235-6	N.D.	0.005
VIII	38	Lead titanium trioxide*	12060-00-3	235-038-9	N.D.	0.005

EBO assures objectivity and justness of the test, and fulfill the duty of confidentiality for applicant's information. Applicant should undertake responsibility for the authenticity of submitted sample and information. Unless otherwise stated the results shown in the report refer only to the sample(s) tested. EBO shall not have any economic and legal responsibility because the use of testing result, or direct and indirect losses, and all legal consequences because of the result. This report is invalid without signatures of approver and special seal for inspection of EBO, or it has been reproduced in full or part. This Report is issued by EBO subject to its General Conditions of Service. The test report shall not be published as advertisement without the written approval of EBO. Any unauthorized alteration, forgery or falsification of the content is unlawful, offenders may be prosecuted to the fullest extent of the law.

Batch	No.	Substance Name	CAS No.	EC No.	Concentration (%)	RL (%)
VIII	39	Lead titanium zirconium oxide*	12626-81-2	235-727-4	N.D.	0.005
VIII	40	Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	N.D.	0.005
VIII	41	Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	N.D.	0.005
VIII	42	Silicic acid, barium salt, lead-doped*	68784-75-8	232-382-1	N.D.	0.005
VIII	43	Silicic acid, lead salt*	11120-22-2	234-363-3	N.D.	0.005
VIII	44	Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	N.D.	0.005
VIII	45	Tetralead trioxide sulphate*	12202-17-4	235-380-9	N.D.	0.005
VIII	46	Trilead bis(carbonate)dihydroxide (basic lead carbonate) *	1319-46-6	215-290-6	N.D.	0.005
VIII	47	Trilead dioxide phosphonate*	12141-20-7	235-252-2	N.D.	0.005
IX	48	Cadmium oxide*	1306-19-0	215-146-2	N.D.	0.005
IX	49	Cadmium*	7440-43-9	231-152-8	N.D.	0.005
X	50	Lead di(acetate) *	301-04-2	206-104-4	N.D.	0.005
XI	51	Cadmium chloride*	10108-64-2	233-296-7	N.D.	0.005
XI	52	Sodium perborate; perboric acid, sodium salt*	-	239-172-9; 234-390-0	N.D.	0.005
XI	53	Sodium peroxometaborate*	7632-04-4	231-556-4	N.D.	0.005
XII	54	Cadmium fluoride	7790-79-6	232-222-0	N.D.	0.005
XII	55	Cadmium sulphate	10124-36-4, 31119-53-6	233-331-6	N.D.	0.005

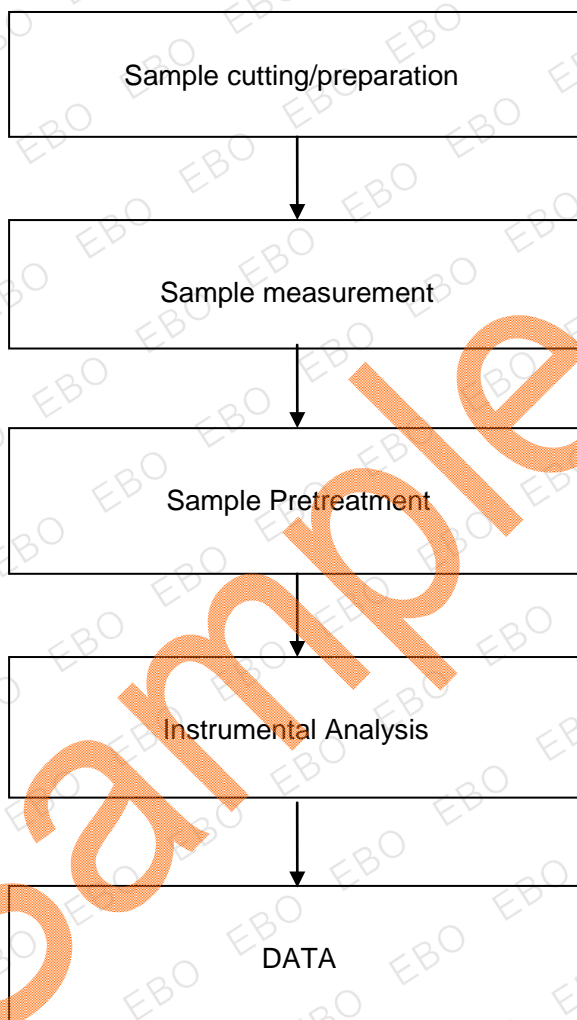
EBO assures objectivity and justness of the test, and fulfill the duty of confidentiality for applicant's information. Applicant should undertake responsibility for the authenticity of submitted sample and information. Unless otherwise stated the results shown in the report refer only to the sample(s) tested. EBO shall not have any economic and legal responsibility because the use of testing result, or direct and indirect losses, and all legal consequences because of the result. This report is invalid without signatures of approver and special seal for inspection of EBO, or it has been reproduced in full or part. This Report is issued by EBO subject to its General Conditions of Service. The test report shall not be published as advertisement without the written approval of EBO. Any unauthorized alteration, forgery or falsification of the content is unlawful, offenders may be prosecuted to the fullest extent of the law.

Notes:

- (1) RL = Reporting Limit. All RL are based on homogenous material.
N.D. = Not detected (lower than RL), N.D. is denoted on the SVHC substance.
- (2) *The test result is based on the calculation of selected element(s) / marker(s) and to the worst-case scenario. For detail information, please refer to the EBO REACH website:
<http://www.reach51.cn/a/REACHzhishi/REACHfg/2010/1115/23934.html>
- (3) RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, sodium, chromium (VI), silicon, aluminum, zirconium, boron, potassium, strontium, zinc and calcium respectively), except molybdenum RL=0.0005%
- (4) ▲On Jun 18, 2012, ECHA consolidated two entries of aluminosilicate refractory ceramic fibres and two of zirconia aluminosilicate refractory ceramic fibres in the Candidate List of SVHC for authorization published in Jan 2010 and Dec 2011 into one entry for aluminosilicate refractory ceramic fibres and one for zirconia aluminosilicate refractory ceramic fibres.

EBO assures objectivity and justness of the test, and fulfill the duty of confidentiality for applicant's information. Applicant should undertake responsibility for the authenticity of submitted sample and information. Unless otherwise stated the results shown in the report refer only to the sample(s) tested. EBO shall not have any economic and legal responsibility because the use of testing result, or direct and indirect losses, and all legal consequences because of the result. This report is invalid without signatures of approver and special seal for inspection of EBO, or it has been reproduced in full or part. This Report is issued by EBO subject to its General Conditions of Service. The test report shall not be published as advertisement without the written approval of EBO. Any unauthorized alteration, forgery or falsification of the content is unlawful, offenders may be prosecuted to the fullest extent of the law.

SVHC Testing Flow Chart



EBO assures objectivity and justness of the test, and fulfill the duty of confidentiality for applicant's information. Applicant should undertake responsibility for the authenticity of submitted sample and information. Unless otherwise stated the results shown in the report refer only to the sample(s) tested. EBO shall not have any economic and legal responsibility because the use of testing result, or direct and indirect losses, and all legal consequences because of the result. This report is invalid without signatures of approver and special seal for inspection of EBO, or it has been reproduced in full or part. This Report is issued by EBO subject to its General Conditions of Service. The test report shall not be published as advertisement without the written approval of EBO. Any unauthorized alteration, forgery or falsification of the content is unlawful, offenders may be prosecuted to the fullest extent of the law.



**Test Report
(SVHC)**

No.: EBOXXXXXXXX-CXXX

Date: July 12, 2017

Page 9 of 10

Sample photo:

No. EBOXXXXXXXX-CXXX

EBO authenticate the photo on original report only

*** End of Report ***

Sample

EBO assures objectivity and justness of the test, and fulfill the duty of confidentiality for applicant's information. Applicant should undertake responsibility for the authenticity of submitted sample and information. Unless otherwise stated the results shown in the report refer only to the sample(s) tested. EBO shall not have any economic and legal responsibility because the use of testing result, or direct and indirect losses, and all legal consequences because of the result. This report is invalid without signatures of approver and special seal for inspection of EBO, or it has been reproduced in full or part. This Report is issued by EBO subject to its General Conditions of Service. The test report shall not be published as advertisement without the written approval of EBO. Any unauthorized alteration, forgery or falsification of the content is unlawful, offenders may be prosecuted to the fullest extent of the law.

信息说明**Information Description**

如对报告有任何疑问，可通过以下方式联系我们：

If you have any questions or comments about the report, please contact us by the following:

亿博检测机构 EBO Testing Center

网址 Website: <http://www.ebotest.com>

邮箱 E-mail: ebo@ebotest.com

电话 Tel: +86-755-33126608

手机 Mobile: 13824328299

传真 Fax: 0755-22639141

地址：深圳市宝安 82 区新安六路金融港大厦 A506

ADD:A506,Financial port building,Xin'an Sixth Road,82th District,Bao'an,Shenzhen,China

亿博检测(EBO)是服务全球的检验、鉴定、测试和认证机构，帮助众多行业和企业提供一站式的产品检测认证解决方案。

EBO Testing Center is a global testing, identification and certification organization. We provide one-stop product testing and certification solutions for many industries and enterprises.



扫一扫，关注亿博检测官方微信，抢先了解检测信息

EBO assures objectivity and justness of the test, and fulfill the duty of confidentiality for applicant's information. Applicant should undertake responsibility for the authenticity of submitted sample and information. Unless otherwise stated the results shown in the report refer only to the sample(s) tested. EBO shall not have any economic and legal responsibility because the use of testing result, or direct and indirect losses, and all legal consequences because of the result. This report is invalid without signatures of approver and special seal for inspection of EBO, or it has been reproduced in full or part. This Report is issued by EBO subject to its General Conditions of Service. The test report shall not be published as advertisement without the written approval of EBO. Any unauthorized alteration, forgery or falsification of the content is unlawful, offenders may be prosecuted to the fullest extent of the law.