

Test Report

No. CTSSA/23485/12
 CTS Ref. CTSSA/12/3804/CSC

Date : 06/11/2012

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CSC STEEL SDN BHD (228899-P)
180, KAWASAN INDUSTRI AYER KEROH
AYER KEROH, 75450 MELAKA, MALAYSIA

The following merchandise was (were) submitted and identified by the client as:

Sample Description : Cold roll steel product
 Sample Receiving Date : 23/10/2012
 Testing Period : 23/10/2012 to 06/11/2012

Test Requested : As requested by client, SVHC screening is performed according to: Eighty-four (84) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before June 18, 2012 regarding Regulation (EC) No 1907/2006 concerning the REACH..

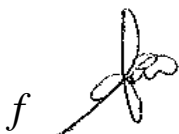
Test Result(s) : Please refer to next page(s).

Summary :

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

Analysts : Teh Pui Sean & Yee Sook Wai

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Remarks:

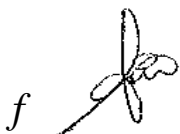
1. The chemical analysis of specific SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA.
 -<http://echa.europa.eu/web/guest/candidate-list-table> (Candidate list)
 These lists are under evaluation by ECHA and may subject to change in the future.
2. 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 concentration in such article.
3. SGS adopts the interpretation of ECHA for SVHC in article unless indicated otherwise. Detail explanation is available at the following link:
 -http://webstage.contribute.sgs.net/corpreach/documents/SGS-CTS_SVHC-paper-EN-11.pdf
4. 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.
5. 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. 1907/2008.

Test Sample:

Sample Description :

No.	Part Name	Component description (colour / material)	Test Group
1.	Cold roll steel product	Grey steel product	a

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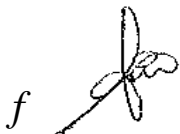
Test Method:

SGS In-House-Method –Analyzed by ICP-OES, GC-MS, UV-Vis, HPLC-DAD and colorimetric method.

Test Results: (per test group):

Substance Name	CAS No.	EC No.	Concentration (%)	RL (%)
			a	
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) #	2580-56-5	219-943-6	N.D.	0.050
[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) #	548-62-9	208-953-6	N.D.	0.050
1,2,3-Trichloropropane	96-18-4	202-486-1	N.D.	0.050
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	N.D.	0.050
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	N.D.	0.050
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) #	112-49-2	203-977-3	N.D.	0.050
1,2-Dichloroethane	107-06-2	203-458-1	N.D.	0.050
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) #	110-71-4	203-794-9	N.D.	0.050
1-Methyl-2-pyrrolidone	872-50-4	212-828-1	N.D.	0.050
2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	N.D.	0.050
2,4-Dinitrotoluene	121-14-2	204-450-0	N.D.	0.050
2-Ethoxyethanol	110-80-5	203-804-1	N.D.	0.050
2-Ethoxyethyl acetate	111-15-9	203-839-2	N.D.	0.050
2-Methoxyaniline	90-04-0	201-963-1	N.D.	0.050
2-Methoxyethanol	109-86-4	203-713-7	N.D.	0.050
4,4'-bis(dimethylamino) benzophenone (Michler's Ketone) #	90-94-8	202-027-5	N.D.	0.050
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol #	561-41-1	209-218-2	N.D.	0.050
4,4'-Diaminodiphenylmethane (MDA)	101-77-9	202-974-4	N.D.	0.050
4-tert-Octylphenol	140-66-9	205-426-2	N.D.	0.050
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	N.D.	0.050

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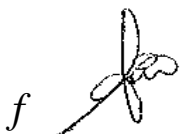
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Substance Name	CAS No.	EC No.	Concentration (%)	RL (%)
			a	
Acids generated from chromium trioxide and their oligomers: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid*	7738-94-5 13530-68-2 -	231-801-5 236-881-5 -	N.D.	0.005
Acrylamide	79-06-1	201-173-7	N.D.	0.050
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	N.D.	0.050
Aluminosilicate Refractory Ceramic Fibres **▲	650-017-00-8 (Index no.)	-	N.D.	0.005
Ammonium dichromate*	7789-09-5	232-143-1	N.D.	0.005
Anthracene	120-12-7	204-371-1	N.D.	0.050
Anthracene oil*	90640-80-5	292-602-7	N.D.	0.050
Anthracene oil, anthracene paste*	90640-81-6	292-603-2	N.D.	0.050
Anthracene oil, anthracene paste, anthracene fraction*	91995-15-2	295-275-9	N.D.	0.050
Anthracene oil, anthracene paste; distn. Lights*	91995-17-4	295-278-5	N.D.	0.050
Anthracene oil, anthracene-low*	90640-82-7	292-604-8	N.D.	0.050
Arsenic acid*	7778-39-4	231-901-9	N.D.	0.005
Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	N.D.	0.050
Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	204-211-0	N.D.	0.050
Bis(2-methoxyethyl) ether	111-96-6	203-924-4	N.D.	0.050
Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	N.D.	0.050
Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0	N.D.	0.050
Boric acid*	10043-35-3 11113-50-1	233-139-2 234-343-4	N.D.	0.005
Calcium arsenate*	7778-44-1	231-904-5	N.D.	0.005
Chromium trioxide*	1333-82-0	215-607-8	N.D.	0.005
Cobalt dichloride*	7646-79-9	231-589-4	N.D.	0.005
Cobalt (II) carbonate*	513-79-1	208-169-4	N.D.	0.005

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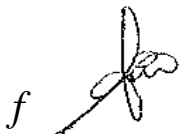
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Substance Name	CAS No.	EC No.	Concentration (%)	RL (%)
			a	
Cobalt (II) diacetate*	71-48-7	200-755-8	N.D.	0.005
Cobalt (II) dinitrate	10141-05-6	233-402-1	N.D.	0.005
Cobalt (II) sulphate*	10124-43-3	233-334-2	N.D.	0.005
Diarsenic pentaoxide*	1303-28-2	215-116-9	N.D.	0.005
Diarsenic trioxide*	1327-53-3	215-481-4	N.D.	0.005
Diboron trioxide**	1303-86-2	215-125-8	N.D.	0.005
Dibutyl phthalate (DBP)	84-74-2	201-557-4	N.D.	0.050
Dichromium tris(chromate)*	24613-89-6	246-356-2	N.D.	0.005
Diisobutyl phthalate	84-69-5	201-553-2	N.D.	0.050
Disodium tetraborate, anhydrous*	1303-96-4 1330-43-4 12179-04-3	215-540-4	N.D.	0.005
Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	N.D.	0.050
Formamide #	75-12-7	200-842-0	N.D.	0.050
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) Δ	25637-99-4 3194-55-6	247-148-4 221-695-9	N.D.	0.050
Hydrazine	7803-57-8 302-01-2	206-114-9	N.D.	0.050
Lead(II) bis(methanesulfonate)* #	17570-76-2	401-750-5	N.D.	0.005
Lead chromate*	7758-97-6	231-846-0	N.D.	0.005
Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*	12656-85-8	235-759-9	N.D.	0.005
Lead diazide*	13424-46-9	236-542-1	N.D.	0.005
Lead dipicrate*	6477-64-1	229-335-2	N.D.	0.005
Lead hydrogen arsenate*	7784-40-9	232-064-2	N.D.	0.005
Lead styphnate*	15245-44-0	239-290-0	N.D.	0.005

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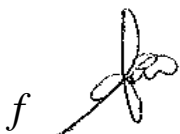
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Substance Name	CAS No.	EC No.	Concentration (%)	RL (%)
			a	
Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	215-693-7	N.D.	0.005
N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	N.D.	0.050
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) #	101-61-1	202-959-2	N.D.	0.050
Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	N.D.	0.005
Phenolphthalein	77-09-8	201-004-7	N.D.	0.050
Pitch, coal tar, high temp.*	65996-93-2	266-028-2	N.D.	0.050
Potassium chromate*	7789-00-6	232-140-5	N.D.	0.005
Potassium dichromate*	7778-50-9	231-906-6	N.D.	0.005
Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	234-329-8	N.D.	0.005
Sodium chromate*	7775-11-3	231-889-5	N.D.	0.005
Sodium dichromate*	7789-12-0 10588-01-9	234-190-3	N.D.	0.005
Strontium chromate*	7789-06-2	232-142-6	N.D.	0.005
Tetraboron disodium heptaoxide, hydrate*	12267-73-1	235-541-3	N.D.	0.005
TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) #	2451-62-9	219-514-3	N.D.	0.050
Trichloroethylene	79-01-6	201-167-4	N.D.	0.050
Triethyl arsenate*	15606-95-8	427-700-2	N.D.	0.005
Trilead diarsenate*	3687-31-8	222-979-5	N.D.	0.005
Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	N.D.	0.050
Zirconia Aluminosilicate Refractory Ceramic Fibres *▲	650-017-00-8 (Index no.)	-	N.D.	0.005
α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) #	6786-83-0	229-851-8	N.D.	0.050
β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) #	59653-74-6	423-400-0	N.D.	0.050

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Note:

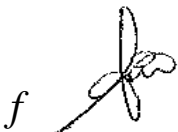
- 1) RL = Reporting Limit. All RL are based on homogenous material
- 2) N.D = Not detected (below than RL). ND is denoted on the SVHC substance.
NA = Not applicable to respective material type. (Organic test will not conduct for untreated glass, ceramic and metal)
NA[^] = The submitted sample was found to contain significant amount of specific element(s) of SVHC. Upon further test verification and also information provided from client, the possibility that the element(s) content originate from SVHC is very unlikely, even though their presence cannot be exclude entirely. It may be assumed that detected element(s) have a non-SVHC source.
- 3) ^Δ CAS No. of diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD): 134237-50-6, 134237-51-7, 134237-52-8
- 4) * 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 SGS REACH website: www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm

The client is advised to review the chemical formulation to ascertain above metal substances present in the article.

RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, sodium, silicon, chromium, chromium (VI), silicon, aluminium, zirconium, boron, and potassium, zinc and strontium respectively), except molybdenum RL = 0.0005%.

- 5) ^Δ Entries on Aluminosilicate Refractory Ceramic Fibres and Zirconia Aluminosilicate Refractory Ceramic Fibres included in the SVHC Candidate List in January 2010 and December 2011 were consolidated into one entry on Aluminosilicate Refractory Ceramic Fibres and one entry on Zirconia Aluminosilicate Refractory Ceramic Fibres by ECHA on June 18, 2012.
- 6) The result is calculated based on the minimum sample weight for composite testing.
- 7) [#] The above parameters are subcontracted to other affiliates.

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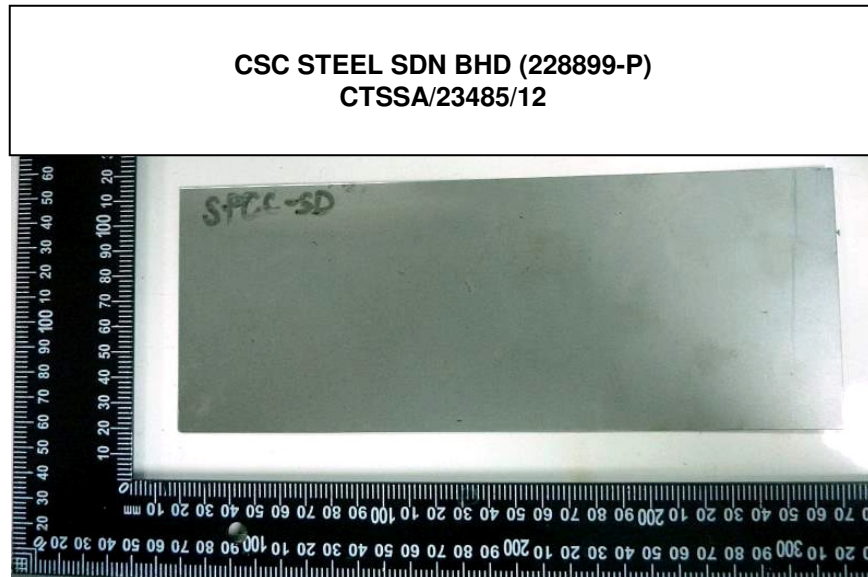
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Sample Photo:



SGS authenticate the photo on the original report only

**** End of Report ****

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