

Test Report

No. CTSSA/16130-2/13
 CTS Ref. CTSSA/13/2315/CSC

Date : 30/07/2013

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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 : Galvanized product sample
 Sample Receiving Date : 16/07/2013
 Testing Period : 16/07/2013 to 30/07/2013

Test Requested : As requested by client, SVHC screening is performed according to: One hundred and forty four (144) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before June 20, 2013 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
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Analysts : Ng Jing Wei & Cho Kar Yan & Tay Siam Pine

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Remarks:

- 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.
- 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.
- 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
- If a SVHC is found over 0.1% (w/w), 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.
- 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.	Galvanized product sample	Silver metal plate	a

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Test Method:

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

Test Result (per test group):

Substance Name	CAS No.	EC No.	Concentration (%)	RL (%)
144 SVHC			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
[Phthalato(2-)]dioxotrilead*	69011-06-9	273-688-5	N.D.	0.005
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-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	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-Diethoxyethane	629-14-1	211-076-1	N.D.	0.050
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	N.D.	0.050
1-Bromopropane	106-94-5	203-445-0	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

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3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	N.D.	0.050
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	-	N.D.	0.050
4,4'-Diaminodiphenylmethane (MDA)	101-77-9	202-974-4	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'-Methylenedi- <i>o</i> -toluidine	838-88-0	212-658-8	N.D.	0.050
4,4'-Oxydianiline and its salts	101-80-4	202-977-0	N.D.	0.050
4-Aminoazobenzene	60-09-3	200-453-6	N.D.	0.050
4-Methyl- <i>m</i> -phenylenediamine	95-80-7	202-453-1	N.D.	0.050
4-Nonylphenol, branched and linear	-	-	N.D.	0.050
4-Nonylphenol, branched and linear, ethoxylated	-	-	N.D.	0.050
4-tert-Octylphenol	140-66-9	205-426-2	N.D.	0.050
5-tert-butyl-2,4,6-trinitro- <i>m</i> -xylene (musk xylene)	81-15-2	201-329-4	N.D.	0.050
6-Methoxy- <i>m</i> -toluidine	120-71-8	204-419-1	N.D.	0.050
Acetic acid, lead salt, basic*	51404-69-4	257-175-3	N.D.	0.005
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
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	N.D.	0.050
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

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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
Biphenyl-4-ylamine	92-67-1	202-177-1	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(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	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
C,C'-azodi(formamide) (ADCA)	123-77-3	204-650-8	N.D.	0.050
Cadmium*	7440-43-9	231-152-8	N.D.	0.005
Cadmium oxide*	1306-19-0	215-146-2	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
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
Dibutyltin dichloride (DBT)	683-18-1	211-670-0	N.D.	0.050
Dichromium tris(chromate)*	24613-89-6	246-356-2	N.D.	0.005
Diethyl sulphate	64-67-5	200-589-6	N.D.	0.050
Diisobutyl phthalate	84-69-5	201-553-2	N.D.	0.050
Diisopentylphthalate (DIPP)	605-50-5	210-088-4	N.D.	0.050
Dimethyl sulphate	77-78-1	201-058-1	N.D.	0.050
Dinoseb	88-85-7	201-861-7	N.D.	0.050
Dioxobis(stearato)trilead*	12578-12-0	235-702-8	N.D.	0.005

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Dipentyl phthalate (DPP)	131-18-0	205-017-9	N.D.	0.050
Disodium tetraborate, anhydrous*	1303-96-4 1330-43-4 12179-04-3	215-540-4	N.D.	0.005
Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	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
Furan	110-00-9	203-727-3	N.D.	0.050
Henicosaflluoroundecanoic acid	2058-94-8	218-165-4	N.D.	0.050
Heptacosaflluorotetradecanoic acid	376-06-7	206-803-4	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
Hexahydro-2-benzofuran-1,3-dione, <i>cis</i> -cyclohexane-1,2-dicarboxylic anhydride, <i>trans</i> -cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	N.D.	0.050
Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	N.D.	0.050
Hydrazine	7803-57-8 302-01-2	206-114-9	N.D.	0.050
Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	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 chromate*	7758-97-6	231-846-0	N.D.	0.005
Lead cyanamidate*	20837-86-9	244-073-9	N.D.	0.005
Lead diazide*	13424-46-9	236-542-1	N.D.	0.005
Lead dinitrate*	10099-74-8	233-245-9	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 monoxide*	1317-36-8	215-267-0	N.D.	0.005
Lead oxide sulphate*	12036-76-9	234-853-7	N.D.	0.005
Lead styphnate*	15245-44-0	239-290-0	N.D.	0.005
Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	215-693-7	N.D.	0.005

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Lead tetroxide*	1314-41-6	215-235-6	N.D.	0.005
Lead titanium trioxide*	12060-00-3	235-038-9	N.D.	0.005
Lead titanium zirconium oxide*	12626-81-2	235-727-4	N.D.	0.005
Lead(II) bis(methanesulfonate)*	17570-76-2	401-750-5	N.D.	0.005
Methoxyacetic acid	625-45-6	210-894-6	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
N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	N.D.	0.050
N,N-Dimethylformamide	68-12-2	200-679-5	N.D.	0.050
N-Methylacetamide	79-16-3	201-182-6	N.D.	0.050
N-Pentyl-isopentylphthalate	776297-69-9	-	N.D.	0.050
o-Aminoazotoluene	97-56-3	202-591-2	N.D.	0.050
o-Toluidine	95-53-4	202-429-0	N.D.	0.050
Pentacosfluorotridecanoic acid	72629-94-8	276-745-2	N.D.	0.050
Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	N.D.	0.050
Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	N.D.	0.005
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 hydroxyoctaoxidizincatedichromate*	11103-86-9	234-329-8	N.D.	0.005
Propylene oxide	75-56-9	200-879-2	N.D.	0.050
Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	N.D.	0.005
Silicic acid, barium salt, lead-doped*	68784-75-8	272-271-5	N.D.	0.005
Silicic acid, lead salt*	11120-22-2	234-363-3	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
Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	N.D.	0.005
Tetraboron disodium heptaoxide, hydrate*	12267-73-1	235-541-3	N.D.	0.005
Tetraethyllead*	78-00-2	201-075-4	N.D.	0.005

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Tetralead trioxide sulphate*	12202-17-4	235-380-9	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
Tricosafuorododecanoic acid	307-55-1	206-203-2	N.D.	0.050
Triethyl arsenate*	15606-95-8	427-700-2	N.D.	0.005
Trilead bis(carbonate)dihydroxide*	1319-46-6	215-290-6	N.D.	0.005
Trilead diarsenate*	3687-31-8	222-979-5	N.D.	0.005
Trilead dioxide phosphonate*	12141-20-7	235-252-2	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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CHONG KIEN LEN
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SENIOR LAB MANAGER

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Test Report

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Notes :

1. RL = Reporting Limit. All RL are based on homogenous material
2. ND = Not detected (lower than RL). ND is denoted on the SVHC substance.
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 the 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, chromium, chromium (VI), silicon, aluminum, zirconium, zinc, antimony, calcium, titanium, barium, potassium, strontium and cadmium respectively), except molybdenum RL = 0.0005%, boron RL = 0.0025%, tin RL = 0.0035%.

5. The result is calculated based on the minimum sample weight for composite testing.

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Sample Photo:



SGS authenticate the photo on the original report only

**** End of Report ****

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