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TEST REPORT

REPORT NUMBER:	**TURT250047027**
APPLICANT NAME	**Elsan Hammadde Sanayi A.Ş**
ADDRESS	Manisa O.S.B 1.Kısım Keçiliköy OSB Mah. 50.Yıl Cad. No:21 Yunusemre / Manisa Tel : 0236 233 34 96 /161 Fax : 0236 233 06 52
Attention :	**Emel Yılmaz (emelyilmaz@elsan.com.tr)**

SAMPLE DESCRIPTION

Sample 1: One sample of Yellow Metal Item (CW511L)
Sample 2: One sample of Yellow Metal Item (CW612N)
Sample 3: One sample of Yellow Metal Item (CW625N)
Sample 4: One sample of Yellow Metal Item (CW626N)
Sample 5: One sample of Yellow Metal Item (CB757S)
Sample 6: One sample of Yellow Metal Item (CB770S)

DATE IN :	**29 April, 2025 (11:26)**
DATE OUT :	**07 May, 2025**
REQUEST :	SVHC Screening Test regarding REACH Regulation (EC) No. 1907/2006 for updated SVHC List of 21 January, 2025.

Melis EVCİ
Customer Care Executive

Emre ÇALIK
Chemical Laboratory Manager

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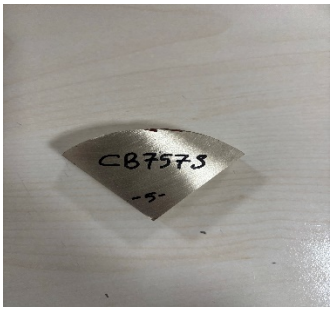
Sample 1

Sample 2

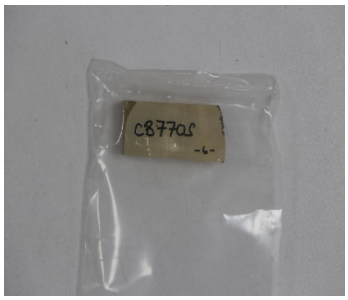
Sample 3

Sample 4

Sample 5



Sample 6



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Tested Components:

CS=Combined Sample

No	Sample	Composite Part of Numbers
1	**CS 1**	1, 2, 3, 4, 5
2	**CS 2**	6

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REPORT : TURT250047027 07 May, 2025

TEST RESULTS

1- Inorganic Component

No.	Sub. No.	Substance	CAS-No.	CS 1	CS 2
1	7	Bis(tributyltin) oxide (TBTO)	56-35-9	ND	ND
2	8	Cobalt dichloride	7646-79-9	ND	ND
3	9	Diarsenic pentoxide	1303-28-2	ND	ND
4	10	Diarsenic trioxide	1327-53-3	ND	ND
5	13	Lead Hydrogen Arsenate	7784-40-9	ND	ND
6	14	Sodium Dichromate	7789-12-0, 10588-01-9	ND	ND
7	15	Triethyl Arsenate	15606-95-8	ND	ND
8	23	Lead chromate	7758-97-6	ND	ND
9	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	ND	ND
10	25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	ND	ND
11	29	Ammonium dichromate	7789-09-5	ND	ND
12	30	Boric acid	10043-35-3, 11113-50-1	ND	ND
13	31	Disodium tetraborate, anhydrous	1303-96-4, 1330-43-4, 12179-04-3	ND	ND
14	32	Potassium chromate	7789-00-6	ND	ND
15	33	Potassium dichromate	7778-50-9	ND	ND
16	34	Sodium chromate	7775-11-3	ND	ND
17	35	Tetraboron disodium heptoxide, hydrate	12267-73-1	ND	ND
18	39	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	ND	ND
19	40	Chromium trioxide	1333-82-0	ND	ND
20	41	Cobalt (II) carbonate	513-79-1	ND	ND
21	42	Cobalt (II) diacetate	71-48-7	ND	ND
22	43	Cobalt (II) dinitrate	10141-05-6	ND	ND
23	44	Cobalt (II) sulphate	10124-43-3	ND	ND
24	51	Strontium chromate	7789-06-2	ND	ND
25	56	Aluminosilicate, Refractory Ceramic Fibres	---	ND	ND

No.	Sub. No.	Substance	CAS-No.	CS 1	CS 2
26	57	Arsenic acid	7778-39-4	ND	ND
27	60	Calcium arsenate	7778-44-1	ND	ND
28	61	Dichromium tris(chromate)	24613-89-6	ND	ND
29	63	Lead azide, Lead diazide	13424-46-9	#1	#2
30	64	Lead dipicrate	6477-64-1	#1	#2
31	65	Lead styphnate	15245-44-0	#1	#2
32	67	Pentazinc chromate octahydroxide	49663-84-5	ND	ND
33	69	Potassium hydroxy octoxo dizincate dichromate	11103-86-9	ND	ND
34	70	Trilead diarsenate	3687-31-8	ND	ND
35	71	Zirconia Aluminosilicate, Refractory Ceramic Fibres	---	ND	ND
36	80	Diboron trioxide	1303-86-2	ND	ND
37	82	Lead(II) bis(methanesulfonate)	17570-76-2	#1	#2
38	96	[Phthalato(2-)]dioxotrilead	69011-06-9	#1	#2
39	97	Acetic acid, lead salt, basic	51404-69-4	#1	#2
40	102	Dibutyltin dichloride (DBTC)	683-18-1	ND	ND
41	107	Dioxobis(stearato)trilead	12578-12-0	#1	#2
42	108	Fatty acids, C16-18, lead salts	91031-62-8	#1	#2
43	113	Lead bis(tetrafluoroborate)	13814-96-5	ND	ND
44	114	Lead cyanamidate	20837-86-9	1.72%	1.27%
45	115	Lead dinitrate	10099-74-8	#1	#2
46	116	Lead monoxide (lead oxide)	1317-36-8	1.55%	1.14%
47	117	Lead oxide sulphate	12036-76-9	#1	#2
48	118	Lead titanium trioxide	12060-00-3	ND	ND
49	119	Lead titanium zirconium oxide	12626-81-2	ND	ND
50	127	Orange lead (lead tetroxide)	1314-41-6	1.60%	1.17%
51	129	Pentalead tetraoxide sulphate	12065-90-6	#1	#2
52	130	Pyrochlore, antimony lead yellow	8012-00-8	ND	ND
53	131	Silicic acid (H_2Si_2O5), barium salt (1:1), lead-doped	68784-75-8	ND	ND
54	132	Silicic acid, lead salt	11120-22-2	#1	#2
55	133	Sulfurous acid, lead salt, dibasic	62229-08-7	#1	#2
56	134	Tetraethyllead	78-00-2	#1	#2

No.	Sub. No.	Substance	CAS-No.	CS 1	CS 2
57	135	Tetralead trioxide sulphate	12202-17-4	#1	#2
58	137	Trilead bis(carbonate)dihydroxide	1319-46-6	#1	#2
59	138	Trilead dioxide phosphonate	12141-20-7	ND	ND
60	141	Cadmium	7440-43-9	ND	ND
61	142	Cadmium oxide	1306-19-0	ND	ND
62	145	Cadmium sulphide	1306-23-6	ND	ND
63	150	Lead di(acetate)	301-04-2	#1	#2
64	153	Cadmium chloride	10108-64-2	ND	ND
65	154	Sodium perborate; perboric acid, sodium salt	---	ND	ND
66	155	Sodium peroxometaborate	7632-04-4	ND	ND
67	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	ND	ND
68	159	Cadmium fluoride	7790-79-6	ND	ND
69	160	Cadmium sulphate	10124-36-4, 31119-53-6	ND	ND
70	161	Reaction mass of 2-ethylhexyl-10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	---	ND	ND
71	177	Cadmium carbonate	513-78-0	ND	ND
72	178	Cadmium dihydroxide	21041-95-2	ND	ND
73	179	Cadmium dinitrate	10325-94-7	ND	ND
74	186	Disodium octaborate	12008-41-2	ND	ND
75	189	Lead	7439-92-1	1.46%	1.07

No.	Sub. No.	Substance	CAS-No.	CS 1	CS 2
76	209	Dibutylbis(pentane-2,4-dionato-O,O')tin ($DBT(acac)_2$)	22673-19-4	ND	ND
77	211	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C_{12} is the predominant carbon number of the fatty acyloxy moiety; Dioctyltin dilaurate; stannane, dioctyl-, bis(coco acyloxy) derivs. Stannane, dioctyl-, bis(coco acyloxy) derivs. Dioctyltin dilaurate (DOTDL)	- - 91648-39-4, 3648-18-8	ND	ND
78	218	Orthoboric acid, sodium salt Boric acid, sodium salt Orthoboric acid, sodium salt Boric acid ($H3BO_3$), disodium salt boric acid ($H3BO_3$), sodium salt, hydrate Boric acid ($H3BO_3$), sodium salt (1:1) Trisodium orthoborate	- 1333-73-9, 13840-56-7, 22454-04-2, 25747-83-5, 14890-53-0, 14312-40-4	ND	ND
79	228	Barium diboron tetraoxide ($Ba(BO_2)_2$	13701-59-2	ND	ND

Reporting limit=0.1% (raw material)

SVHC = Substance of very high concern
ND = Not detected (the result is less than the reporting limit)
Reporting limit = Quantitation limit of analyte in sample
Note= Determination was based on elemental analysis. The content was calculated based on assumption of worst-case.

#1: Lead (Pb) is found 14431 ppm in CS 1 of Submitted Sample, The Estimated Content of Substance Lead azide, Lead diazide, Lead dipicrate, Lead styphnate, Lead(II) bis(methanesulfonate), [Phthalato(2-)]dioxotrilead, Acetic acid, lead salt, basic, Dioxobis(stearato)trilead, Fatty acids, C16-18, lead salts, Lead dinitrate, Lead oxide sulphate, Pentalead tetraoxide sulphate, Silicic acid, lead salt, Sulfurous acid, lead salt, dibasic, Tetraethyllead, Tetralead trioxide sulphate, Trilead bis(carbonate)dihydroxide, Lead di(acetate) MAY BE HIGHER THAN 0.1% by calculating from the Lead (Pb) content with adjustment by weight ratio factor.

#2: Lead (Pb) is found 10642 ppm in CS 2 of Submitted Sample, The Estimated Content of Substance Lead azide, Lead diazide, Lead dipicrate, Lead styphnate, Lead(II) bis(methanesulfonate), [Phthalato(2-)]dioxotrilead, Acetic acid, lead salt, basic, Dioxobis(stearato)trilead, Fatty acids, C16-18, lead salts, Lead dinitrate, Lead oxide sulphate, Pentalead tetraoxide sulphate, Silicic acid, lead salt, Sulfurous acid, lead salt, dibasic, Tetraethyllead, Tetralead trioxide sulphate, Trilead bis(carbonate)dihydroxide, Lead di(acetate) MAY BE HIGHER THAN 0.1% by calculating from the Lead (Pb) content with adjustment by weight ratio factor.

Notes:
1. Substances of very high concern (SVHC) are classified as:
   a. Carcinogenic, mutagenic or toxic to reproduction category 1 (proven on humans) and category 2 (proven on animals)
   b. Persistent, bioaccumulative and toxic chemicals (PBT)
   c. Very persistent and very bioaccumulative chemicals (vPvB)
   d. Other similar substances such as endocrine disrupters
2. If the imported or manufactured volume of each individual SVHC in article is more than 0.1% (w/w) and if it exceeds 1 tonne per year across all product ranges, then importer or manufacturer require notification to the European Chemical Agency (ECHA). For substances included in the Candidate List on or after 1 December 2010, the notifications have to be submitted no later than 6 months after the inclusion. The following information has to be submitted for notification:
   a. Identification of the registrant and the substance b. Classification and labelling of the substance
   c. Description of use of the substance and the article
   d. Registration number, if available e. Tonnage range
3. As per article 31 of regulation (EC) No. 1907/2006 (REACH), suppliers of mixtures not classified as dangerous according to directive 1999/45/EC have to provide the recipients, at their request, with a safety data sheet if the mixtures contain at least one substance on the SVHC candidate list and its individual concentration is 0.1%(w/w) or above for non-gaseous preparations.

REACH requirement:
As per article 33(1) of regulation (EC) No. 1907/2006 (REACH), recipients of product must be provided with information of safe use if any of the tested substances (SVHC) exceeded 0.1% (w/w). A product meets the requirement of article 33(1) by default when no SVHC exceeds 0.1% (w/w).

END OF TEST REPORT

Total Quality. Assured.

TEST REPORT

REPORT NUMBER : **TURT170212525**

APPLICANT NAME **Elsan Hammadde Sanayi A.Ş**

ADDRESS Manisa O.S.B 1.Kısım Keçiliköy OSB Mah. 50.Yıl Cad. No:21 Yunusemre/Manisa
Tel: 0236 233 34 96 /161 Fax: 0236 233 06 52
Attention: Emel Yılmaz (emelyilmaz@elsan.com.tr)

SAMPLE DESCRIPTION :

Sample 1: CW614N - AA 24MM FREE CUTTING BRASS ROD
Sample 2: CW602N - Ø22 MM DZR BRASS ROD
Sample 3: CW510L - Ø25 MM MUNTZ-LOW LEADED BRASS ROD
Sample 4: CB755S - BRASS INGOT
Sample 5: CW617N - Ø22 MM FORGING BRASS ROD

DATE IN : **10 November, 2017 (12:47)**

DATE OUT : **22 November, 2017**

MANUFACTURER'S NAME : Elsan Hammadde Sanayi A.Ş

REQUEST : SVHC Testing regarding REACH Regulation (EC) No. 1907/2006 for updated SVHC List of 10nd July, 2017

Volkan ALBAYRAK
Customer Care Executive

Zeynep AKIN
Chemical Laboratory Manager

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170212525

Test Method	Result	Requirements

Sample:

Sample 1

Weight :10.32 g

Sample 2

Weight :16.74 g

Sample 3

Weight :14.34 g

Sample 4

Weight :18.31 g

Sample 5

Weight :13.54 g

Tested Component Parts:

CS : Combined Sample

CS	Description	
1	CS 1	Combined sample of CW614N - AA 24MM FREE CUTTING BRASS ROD, CW602N - Ø22 MM DZR BRASS ROD, CW510L - Ø25 MM MUNTZ-LOW LEADED BRASS ROD, CB755S - BRASS INGOT, CW617N - Ø22 MM FORGING BRASS ROD

Test Method	Result	Requirements

1. Heavy metals after total digestion in %

Test method: ICP OES DIN EN ISO 11885 (E22)
Plastic and metal: two stage digestion: cont. HNO_3 + H_2O_2, inverse aqua regia solution
Plastic: microwave digestion (HNO_3)
Metal: aqua regia solution: US EPA 3052
Detection Limit: 0.01%

Parameter	CS 1
Lead (Pb)	1.4%
Cobalt (Co)	Not Detected
Arsenic (As)	Not Detected
Chromium (Cr)	Not Detected
Strontium (Sr)	Not Detected
Boron (B)	Not Detected
Calcium (Ca)	Not Detected
Potassium (K)	Not Detected
Molybdenum (Mo)	Not Detected
Sodium (Na)	Not Detected
Zinc (Zn)	5.3%
Cadmium (Cd)	Not Detected
Aluminium (Al)	Not Detected

2. Chromium VI in %

Test method: Plastic and composite material: alkaline extraction according to IEC 62321:2008
Textile: Extraction with acid sweat solution according to BS EN ISO 105-E04:2009, detection by ICP-MS
Leather: BS EN ISO 17075:2007 with UV-VIS Detection
Metal: boiling water extraction according to IEC 62321:2008
Detection Limit: 0.001%

Parameter	CS 1
Chromium VI	Not Detected

Test Method	Result	Requirements

Substance	CAS-No.	CS 1
Cobalt Dichloride	7646-79-9	<0.1%
Diarsenic Pentaoxide	1303-28-2	<0.1%
Diarsenic Trioxide	1327-53-3	<0.1%
Lead Hydrogen Arsenate	7784-40-9	<0.1%
Triethyl Arsenate	15606-95-8	<0.1%
Sodium Dichromate	7789-12-0, 10588-01-9	<0.1%
Bis (Tributyltin) Oxide (TBTO)	56-35-9	<0.1%
Lead Chromate	7758-97-6	<0.1%
Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104)	12656-85-8	<0.1%
Lead Sulfochromate Yellow (C.I. Pigment Yellow 34)	1344-37-2	<0.1%
Boric Acid	10043-35-3, 11113-50-1	<0.1%
Disodium Tetraborate, Anhydrous	1330-43-4, 12179-04-3, 1303-96-4	<0.1%
Tetraboron Disodium Heptaoxide, Hydrate	12267-73-1	<0.1%
Sodium Chromate	7775-11-3	<0.1%
Potassium Chromate	7789-00-6	<0.1%
Ammonium Dichromate	7789-9-5	<0.1%
Potassium Dichromate	7778-50-9	<0.1%
Cobalt Sulphate	10124-43-3	<0.1%
Cobalt Dinitrate	10141-05-6	<0.1%
Cobalt Carbonate	513-79-1	<0.1%
Cobalt Diacetate	71-48-7	<0.1%
Chromium Trioxide	1333-82-0	<0.1%
Chromic Acid	7738-94-5	<0.1%
Dichromic Acid	13530-68-2	<0.1%
Oligomers of Chromic Acid and Dichromic Acid	--	<0.1%
Strontium Chromate	7789-6-2	<0.1%
Lead dipicrate	6477-64-1	<0.1%
Lead styphnate	15245-44-0	<0.1%
Lead azide; Lead diazide	13424-46-9	<0.1%
Trilead diarsenate	3687-31-8	<0.1%
Calcium arsenate	7778-44-1	<0.1%
Arsenic acid	7778-39-4	<0.1%
Pentazinc chromate octahydroxide	49663-84-5	<0.1%
Potassium hydroxyoctaoxodizincate di-chromate	11103-86-9	<0.1%
Dichromium tris(chromate)	24613-89-6	<0.1%
Aluminosilicate Refractory Ceramic Fibres	(Index No. 650-017-00-8)	<0.1%
Zirconia Aluminosilicate Refractory Ceramic Fibres	(Index No. 650-017-00-8)	<0.1%
Diboron trioxide	1303-86-2	<0.1%
Lead(II) bis(methanesulfonate)	17570-76-2	<0.1%
Cadmium oxide	1306-19-0	<0.1%
Lead di(acetate)	301-04-2	<0.1%
Cadmium sulphide	1306-23-6	<0.1%
Cadmium chloride	10108-64-2	<0.1%
Cadmium fluoride	7790-79-6	<0.1%
Cadmium sulphate	10124-36-4; 31119-53-6	<0.1%

Calculated for the whole product the detected amount in % is:

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Test Method	Result	Requirements

3. Ceramic fibers

Substances	CAS-No.	CS 1
Aluminosilicate	--	<0.1%
Zirconia aluminosilicate	--	<0.1%
Aluminosilicate Refractory Ceramic Fibres (RCF)	--	<0.1%
Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)	--	<0.1%

END OF TEST REPORT

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