

SVHC Assessment Report

Sample Description:

One (1) group of submitted samples said to be:

Sample Description : Alloy Series
Style / Item No. : Alloy Cu, Ag, Au, Brass: C2600; C2680, Copper, Fe, KLF, Phosphorus Bronze, Silver Solder, Sn, SUS301, SUS304, SUS316, Zinc

Summary:

According to the client's request, a composite screening test was conducted for the 5 Substances of Very High Concern (SVHC) in the Candidate List promulgated by the European Chemicals Agency (ECHA) on December 17, 2015.

This assessment report is for reference purposes only. The applicant shall make his/her own judgment as to whether the information provided in assessment report is sufficient for his/her purposes. The screening results shown in this assessment report will be in relation to various factors, including but not limited to the weight or size of dismantled component and composite test approach, etc. If the content of SVHC is out of the threshold, further identification is recommended to obtain the information of SVHC in each material.

The thresholds and SVHCs are defined in Article 7 and 57 of Regulation (EC) No 1907/2006 (REACH Regulation). The information is quoted from the ECHA and can be found via following links:

<http://echa.europa.eu/regulations/reach/authorisation>

http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp

Substances of Very High Concern (SVHC) are classified as

- Carcinogenic, mutagenic or toxic to reproduction (CMR) classified in category 1 or 2
- PBT (PBT) or vPvB (vPvB) according to the criteria in Annex XIII of the REACH Regulation, and/or
- Identified, on a case-by-case basis, from scientific evidence as causing probable serious effects to humans or the environment of an equivalent level of concern as those above e.g. endocrine disrupters

Legal obligations

- EU and EEA producers and importers of articles have a legal obligation to submit a notification to ECHA with regard to any substance on the Candidate List in their articles, if both the following conditions are met
 - the substance is present in their relevant articles above a concentration of 0.1% weight by weight, and
 - the substance is present in their relevant articles in quantities totalling over 1 tonne per year.
- EU and EEA suppliers of articles which contain substances on the Candidate List in a concentration above 0.1% (w/w) have to provide sufficient information to allow safe use of the article to their customers or upon request, to a consumer within 45 days of the receipt of the request. This information must contain as a minimum the name of the substance.

Test Conducted

Tested Components:

	Tested Component
1	Mixed all kinds of submitted samples

Test Method:

By Intertek in-house method

1. Solvent extraction method was used for organic compounds and the relevant compounds were determined by GCMS or LC-MS-MS.

No.	Substance Name	Result (ppm) (1)
-	Substances of Very High Concern (SVHC) in the Candidate List	All SVHC were not detected

Remarks:

ppm = Parts per million = mg/kg

Detection limit = 100 ppm (for each compound)

Test Conducted

Appendix – 5 Substances of Very High Concern (SVHC) in the Candidate List

No.	Substance Name	EC Number	CAS Number	Reason for Inclusion
1	Nitrobenzene	202-716-0	98-95-3	TRC
2	2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	vPvB
3	2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(secbutyl) phenol (UV-350)	253-037-1	36437-37-3	vPvB
4	1,3-Propanesultone	214-317-9	1120-71-4	Carcinogenic
5	Perfluorononan-1-oic-acid and its sodium and ammonium salts	206-801-3	375-95-1 21049-39-8 4149-60-4	TRC, PBT

Remarks:

Carcinogenic

TRC = Toxic for Reproduction

PBT = Persistent, Bioaccumulative and Toxic

vPvB = Very Persistent And Very Bioaccumulative

Part Number
DNF05-3
DNF05-3.7
SVE1-3.2

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