



2CMT001035D0903

Hyderabad, July 12th 2024

To whom it may concern

According to our current best knowledge and according to information received from suppliers, ABB provides following information concerning presence above threshold level of substances listed in table below for Arc Guard Systems.

Substance		Threshold value	Present above threshold value? Yes / No
Asbestos		No threshold level	No
Polychlorinated biphenyls (PCBs)		No threshold level	No
Ozone depleting substances	Chlorofluorocarbons (CFCs)	No threshold level	No
	Halons		No
	Other fully halogenated CFCs		No
	Carbon Tetrachloride		No
	1,1,1-Trichloroethane (Methyl chloroform)		No
	Hydrochlorofluorocarbons		No
	Hydrobromofluorocarbons		No
	Methyl Bromide		No
	Bromochloromethane		No
Anti-fouling systems containing organotin compounds as a biocide		2,500 mg total tin/kg	No
Cadmium and Cadmium Compounds		100 mg/kg	No
Hexavalent Chromium and Hexavalent Chromium Compounds		1,000 mg/kg	No
Lead and Lead Compounds		1,000 mg/kg	Yes *
Mercury and Mercury Compounds		1,000 mg/kg	No
Polybrominated Biphenyl (PBBs)		50 mg/kg	No **
Polybrominated Diphenyl Ethers (PBDEs)		1,000 mg/kg	No
Polychlorinated Naphthalenes (more than 3 chlorine atoms, Cl \geq 3)		50 mg/kg	No
Radioactive substances		No threshold level	No
Certain short chain chlorinated paraffins (Alkanes, C10-C13, chloro)		1%	No
Perfluorooctane sulfonic acid (PFOS)		No threshold level	No **
Brominated Flame Retardant (HBCDD)		No threshold level	No **



* Lead is present in a concentration above threshold value mainly in some electronic components and in some parts constituting Arc guard Systems and its accessories; all applications are covered by RoHS exemptions. Estimated quantity inside each unit is < 0,01 kg.

** Polybrominated Biphenyl (PBBs) / Perfluoro octane sulfonic acid (PFOS) / Brominated Flame Retardant (HBCDD) are not intentionally used.

Reference documents considered are:

- MEPC.269(68) – Guidelines for the development of the Inventory of Hazardous Materials
- Regulation (EU) No 1257/2013 – Regulation (EU) No 1257/2013 of the European Parliament and of the Council of 20 November 2013 on Ship Recycling and Amending Regulation (EC) No 1013/2006 and Directive 2009/16/EC
- EMSA IHM Guidance – EMSA's Best Practice Guidance on the Inventory of Hazardous Materials

ABB GISPL
Electrification Smart Power
Electronics Quality Leader


Rajasekhar Erramuri

ABB GISPL
Electrification Smart Power
R&D Chapter Leader

Srinath
Topucharla
Digitally signed by Srinath Topucharla
DN: cn=Srinath Topucharla, c=CH,
o=ABB Asea Brown Boveri Ltd
Date: 2024.07.12 17:54:40 +05'30'
Srinath Topucharla