



Bourns REACH Efforts

January 12, 2017


As of June 2007, the European Regulation (EC) 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) entered into force. As a downstream user of chemical substances, Bourns is fully aware of the requirements of REACH. It is our objective to fully comply with REACH securing the dependable supply of our products to our customers.

The Candidate List of Substances of Very High Concern (SVHC) (Annex XVII) was published on the website of the European Chemicals Agency (ECHA) in October 2008 with additions to the Candidate List in January 2010, March 2010, June 2010, August 2010, December 2010, June 2011, August 2011, December 2011, June 2012, December 2012, June 20, 2013, December 16, 2013, June 16, 2014, December 17, 2014, June 15, 2015, December 17, 2015, June 20, 2016 and January 12, 2017. There are now 173 substances identified as SVHC. The REACH Authorization list (Annex XIV) was updated on January 11, 2016 and includes 31 substances.

Based on our knowledge of the materials used and the information from our suppliers to date, the current SVHCs are not contained in our products >0.1% w/w at the homogeneous level (articles) as the raw, pure substance as listed except for a few recently determined exceptions listed in the table below; the current Annex XIV substances are not contained in our products. If it is determined that any of our articles contain future SVHC, notification procedures per REACH requirements will be followed. Further, no dangerous substances as listed and described in the conditions of restriction in Annex XVII are present in Bourns articles.

Some models do contain resistor and/or conductor ink systems containing a glass matrix. This glass may have used boron oxide, lead monoxide or cadmium oxide in the glass formulation prior to processing. Once the glass matrix is processed, these oxides are no longer present in the raw, pure form as listed on the SVHC list. Per the *REACH Dossier, Exemption for registration for glass under REACH regulation 1970/2006/EC*, "although conventionally, glass compositions are expressed as oxides of the different components, glass is a non-crystalline or vitreous inorganic macromolecular structure, which does not contain the chemical components of the different raw materials."

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Bourns Models Currently Containing Substances of Very High Concern (SVHC)

Models	SVHC reported	SVHC CAS	Quantity in homogeneous material	Comments
Magnetics: 2100, 2200, 2300, 2100LL, 2200LL, 2300LL, 2100 HT, 2200HT, 2300HT	1,2-Benzene dicarboxyl acid, di-C7-11-branched & linear alkyl esters	68515-42-4	0.3 – 0.61% in homogeneous material in the current tape (<0.1% in article)	A PCN is in process to replace the current tape with a REACH-compliant tape. http://www.bourns.com/docs/technical-documents/product-change-notifications/IC1670_Toroid_PCN.pdf
GDT: 2027-xx-SM 2029-xx-SM 2035-xx-SM 2036-xx-SM 2038-xx-SM 2039-xx-SM 2030-xxT-SM 2031-xxT-SM 2020-xxT 2026-xx-XX 2027-xx-XX 2028-xx-XX 2035-xx-XX 2036-xx-XX 2037-xx-XX 2039-xx-XX 2047-xx-XX 2026-xx-XX-MSP	Cyclohexane-1,2-dicarboxylic anhydride	85-42-7	The SVHC is <5% in the marking ink (homogeneous material) and typically < 0.2% of the total weight of the part; the SVHC is <0.1% in the article.	Product line is currently working with the supplier to provide a REACH-compliant marking ink; supplier is planning changes in 2018.
Military trimmers: (250– 1M ohms) RJ12 RJ22 RJ24 RJR24 RJ26 RJR26 RJ50 RJR50	Cadmium	7440-43-9	Thick film ink contains Cd in glass: 20.2% Cd in 250-25K ohms; 1.1% Cd in 26K – 1M ohms	Military parts – no material change planned. Parts are not RoHS2 compliant. Alternative commercial parts are available meeting both REACH and RoHS2 compliance.
Sensors & Controls: 3610S series – 10-Turn Precision Knobpot	Cadmium	7440-43-9	Alloy used for tab contains 18% Cd in homogeneous material (0.113% in article).	Part is not RoHS2 compliant. No material change planned.