

Micro Crystal confirms that below listed standard products Quartz Crystal Units in metal packages are compliant with the RoHS 3 Directive 2015/863/EU and REACH Regulation 1907/2006/EU of the European Parliament and of the Council on the Restriction of the use of Hazardous Substances in electrical and electronics equipment.

Latest version of CoC Environment: www.microcrystal.com/en/company/related-documents

MS-Series Quartz Crystal Units (MS1V/MS3V)

Directive	Description
 RoHS Directive 2011/65/EU / (RoHS 2) Edition: July 1st 2011 and Directive 2015/863/EU / (RoHS 3) Edition: 31.3.2015 Directive 2018/742/EU Edition: 18.5.2018	These products contain Lead (Pb) exempted under RoHS: - 6(c) Lead as an alloying element in copper containing up to 4% lead by weight. - 7(a) Lead in high melting temperature type solders (i.e. lead based solder alloys containing 85% by weight or more lead).
 China RoHS 2 / GB / T 26572-2011 Edition: January 21 st 2016	Restrictions of Hazardous Substances - China RoHS 2 compliant
 VOC's GB 30981 / 38507 / 33372 / 38508 Edition: March 2020	Materials used in products and processes are in compliance with the China VOC regulations.
 WEEE Directive 2012/19/EU Edition: July 4 th 2012	Waste from Electrical and Electronic Equipment - compliant with WEEE directive
 REACH Regulation 1907/2006/EU (REACH = Registration, Evaluation and Authorisation of Chemicals) According to article 59 (10) and articles 56 and 67 / annexes XIV and XVII of Regulation - IEC 62474 Int. Electrotechnical Commission	SVHC: Substances of Very High Concern Number of substances on the Candidate List: 240 - last updated: 23 rd of January 2024 - These products contain SVHC in concentration above 0.1% by weight. Substance: Lead CAS: 7439-92-1 ¹⁾ - IEC: Declarable Substances List: actual Version
 Directive 2019/1021/EC Edition June 20 th 2019 Directive 2006/122/EC Edition December 12 th 2006 PFAS e.g. Reg. State of Maine L.D. 1503	Persistent Organic Pollutants (POP's) - products are free of POP's (incl. PFOS, PFOA) and Perfluoroalkyl and Polyfluoroalkyl substances (PFAS)
 California Proposition 65 The Safe Drinking Water and Toxic Enforcement Act of 1986	Products contain listed substances Nickel (CAS 7440-02-0), Cobalt (CAS 7440-48-4) and Lead (7439-92-1) and are compliant with Prop 65. ¹⁾
 US-EPA (Environmental Protection Agency) TSCA (Toxic Substances Control Act) e-CFR system 40 Part 751	The products contains one or more components for which a Low Volume Exemption (LVE) with 40 CFR 723.50 applies.
 Halogen free	Halogen free - products are free of Halogen
 Conflict-Free Sourcing Initiative (CFSI), founded by EICC and GeSI. Conflict Minerals Reporting Template (CMRT) Extended Mineral Reporting Template (EMRT)	It is Micro Crystal's strict policy not to purchase any Conflict Minerals that are mined under conditions of armed conflict and human rights abuses.
Various Radioactive Materials Ozone Depleting Substances, Asbestos, BPA, PVC, DMF, HBCDD, Latex nor Phthalates.	Products are compliant with: EU Directive 96/29 EU Directive 1005/2009 / EU Directive 2009/148

¹⁾ Detailed "Material composition" see pdf document "Product Doc." or "App. Manual" (Homepage)

Document Revision History

Date	Rev #	Revision Details	Date	Rev #	Revision Details
Jan. 20 - July 22	2.1 – 2.7	Update REACH / IEC 62474 / VOC's, POP's	Feb. 2024	3.2	Update REACH
Jan. 17 – Aug. 19	1.1 – 2.0	Different updates	July 2023	3.1	Update REACH
Sept. 2016	1.0	First release	Jan. 2023	3.0	Update REACH / add PFAS

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Document Status

Date	CoC Environmental	Name	Title	Signature
February 1 st 2024	Document Approved	Fritz Burkhalter	Quality Manager	