

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](http://www.microcrystal.com/en/company/related-documents)

### MS-Series Quartz Crystal Units (MS1V/MS3V)

Directive	Description
 <b>RoHS Directive</b> 2011/65/EU / (RoHS 2) Edition: July 1st 2011 and <b>Directive</b> 2015/863/EU / (RoHS 3) Edition: 31.3.2015 <b>Directive</b> 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)-V Lead in high melting temperature type solders (i.e. lead based solder alloys containing 85% by weight or more lead).
 <b>China RoHS 2</b> / GB / T 26572-2011 Edition: January 21 <sup>st</sup> 2016	Restrictions of Hazardous Substances - China RoHS 2 compliant
 <b>VOC's</b> GB 30981 / 38507 / 33372 / 38508 Edition: March 2020	Materials used in products and processes are in compliance with the China VOC regulations.
 <b>WEEE Directive</b> 2012/19/EU Edition: July 4 <sup>th</sup> 2012	Waste from Electrical and Electronic Equipment - compliant with WEEE directive
 <b>REACH Regulation</b> 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: 247 - last updated: 21 <sup>st</sup> of January 2025 - These products contain SVHC in concentration above 0.1% by weight. Substance: Lead CAS: 7439-92-1 <sup>1)</sup> - IEC: Declarable Substances List: actual Version
 <b>Directive</b> 2019/1021/EC Edition June 20 <sup>th</sup> 2019 <b>Directive</b> 2006/122/EC Edition December 12 <sup>th</sup> 2006 <b>PFAS</b> 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)
 <b>California Proposition 65</b> 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. <sup>1)</sup>
 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 <b>Conflict Minerals</b> that are mined under conditions of armed conflict and human rights abuses.
<b>Various</b> 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

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

### Document Revision History

Date	Rev #	Revision Details	Date	Rev #	Revision Details
Jan. 23 – July 24	3.0 – 3.3	Update REACH / add PFAS			
Jan. 17 – July 22	1.1 – 2.7	Different updates	Febr. 2025	3.5	Update REACH / RoHS Directive
Sept. 2016	1.0	First release	Nov. 2024	3.4	Update REACH

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### Document Status

Date	CoC Environmental	Name	Title	Signature
February 11 <sup>th</sup> 2025	Document Approved	Fritz Burkhalter	Quality Manager	