











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
 <p>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</p>	<p>These products contain Lead (Pb) exempted under RoHS:</p> <ul style="list-style-type: none"> - 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).
 <p>China RoHS 2 / GB / T 26572-2011 Edition: January 21th 2016</p>	<p>Restrictions of Hazardous Substances</p> <ul style="list-style-type: none"> - China RoHS 2 compliant
 <p>VOC's GB 30981 / 38507 / 33372 / 38508 Edition: March 2020</p>	<p>Materials used in products and processes are in compliance with the China VOC regulations.</p>
 <p>WEEE Directive 2012/19/EU Edition: July 4th 2012</p>	<p>Waste from Electrical and Electronic Equipment</p> <ul style="list-style-type: none"> - compliant with WEEE directive
 <p>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</p> <p>- IEC 62474 Int. Electrotechnical Commission</p>	<p>SVHC: Substances of Very High Concern Number of substances on the Candidate List: 233 - last updated: 17th of January 2023</p> <ul style="list-style-type: none"> - These products contain SVHC in concentration above 0.1% by weight. Substance: Lead CAS: 7439-92-1 ¹⁾ - IEC: Declarable Substances List: actual Version
 <p>Directive 2019/1021/EC Edition June 20th 2019 Directive 2006/122/EC Edition December 12th 2006 PFAS e.g. Reg. State of Maine L.D. 1503</p>	<p>Persistent Organic Pollutants (POP's)</p> <ul style="list-style-type: none"> - products are free of POP's (incl. PFOS, PFOA) and Perfluoroalkyl and Polyfluoroalkyl substances (PFAS)
 <p>California Proposition 65 The Safe Drinking Water and Toxic Enforcement Act of 1986</p>	<p>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⁾</p>
 <p>US-EPA (Environmental Protection Agency) TSCA (Toxic Substances Control Act) e-CFR system 40 Part 751</p>	<p>The products contains one or more components for which a Low Volume Exemption (LVE) with 40 CFR 723.50 applies.</p>
 <p>Halogen free</p>	<p>Halogen free</p> <ul style="list-style-type: none"> - products are free of Halogen
 <p>Conflict-Free Sourcing Initiative (CFSI), founded by EICC and GeSI. Conflict Minerals Reporting Template (CMRT) Extended Mineral Reporting Template (EMRT)</p>	<p>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.</p>
<p>Various</p> <p>Radioactive Materials Ozone Depleting Substances, Asbestos, BPA, PVC, DMF, HBCDD, Latex nor Phthalates.</p>	<p>Products are compliant with:</p> <p>EU Directive 96/29 EU Directive 1005/2009 / EU Directive 2009/148</p>

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 21	2.1 – 2.5	Update REACH / IEC 62474 / VOC's, POP's	Jan. 2023	3.0	Update REACH / add PFAS
Jan. 17 – Aug. 19	1.1 – 2.0	Different updates	July 2022	2.7	Update REACH / EMRT
Sept. 2016	1.0	First release	Jan. 2022	2.6	Update REACH / Candidate list & TSCA

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Document Status

Date	CoC Environmental	Name	Title	Signature
January 25 th 2023	Document Approved	Fritz Burkhalter	Quality Manager	