

## SAN-TRON DATA AND DECLARATIONS

15 Feb 2024

Dear Valued Customer:

Attached herewith is a list of frequently requested company information; and raw material declarations based on data from suppliers, and other readily available information on our standard catalog products. Our raw material list is also attached for additional information.

The raw material declarations are not intended to substitute for testing you may need to conduct to determine for yourself the suitability of our products for a particular purpose, application, or destination.

San-tron reserves the right to update this document at any time and assumes no obligation or liability in connection with this information.



Steve Libby  
Quality Manager

## GENERAL INFORMATION

<p><b>Company information.</b>  <a href="http://WWW.SANTRON.COM">WWW.SANTRON.COM</a></p>	<p>Company Name: San-tron Inc.          Address: 4 Turnpike Rd, Ipswich, MA 01938 USA.          Phone: 978-356-1585.          Internet: <a href="http://www.santron.com">www.santron.com</a>.          Year Business Established: 1955.          FSCM No.: 50896.          Company DUNS Code: 001031327.          Primary NAICS Code: 334417.          Secondary NAICS Code: 335929.          Taxpayer ID: 04-2397079.          Type: Privately Held Corporate Entity (not tax-exempt).          Facilities: 2 Buildings, 30k Sq Ft, 1.5 Shifts.</p>
<p><b>Quality Management System</b>  <a href="#">San-tron AS9100/ISO9001 Certification</a></p>	<p>Certification Body: TUV SUD America Inc.          QMS: AS9100D and ISO9001:2015.          Expiration Date: 11/28/2025.          Registration No.: 951 13 6430.          Issue Date: 11/29/2022.          Scope: Design and manufacture of RF Coaxial Connectors, Passive Devices, Cable Assemblies, and Precision Machined Components.</p>
<p><b>ITAR.</b>  <a href="#">San-tron ITAR Registration</a>          Manufacturer Registration pursuant to the Arms Export Control Act (AECA) and the International Traffic in Arms Regulations (ITAR Part 122)</p>	<p>The Office of Defense Trade Controls Compliance reviewed our registration statement and assigned San-tron an ITAR registration code, which expires on 2024-09-30.</p>

## RAW MATERIAL DISCLOSURES & DECLARATIONS

Description	To the best of our knowledge:								
<p><b>Conflict Minerals.</b>  <a href="#">Dodd-Frank Act: Section 1502</a>                      Metals derived from minerals defined as “Conflict Minerals”</p>	<p>(Declaration against Tantalum, Tin, Tungsten, and Gold (3TG)).</p> <p>Tantalum <b>is not</b> intentionally added.                      Tungsten <b>is not</b> intentionally added.</p> <p>Tin <b>is</b> used in plating.                      Gold <b>is</b> used in plating.</p> <p>None of the smelters in our supply chain source the 3TG from conflict-affected high-risk areas.</p> <p>A completed responsible minerals initiative conflict minerals reporting template (RMI_CMRT) is available on request.</p> <p>Although not a conflict mineral, a cobalt reporting template (RMI_CRT) is also available on request.</p>								
<p><b>EU RoHS Directive.</b>  <a href="#">2011/65/EU</a>  <a href="#">2015/863/EU</a>  <b>RoHS 3</b> with Phthalates Amendment.</p>	<p>(Declaration against 10 substances at the Homogeneous Material Level).</p> <p>Product Meets EU RoHS Requirements by Application of <b>Exemption 6c</b>: Copper alloy containing up to 4% lead by weight.</p>								
<p><b>EU REACH Regulation.</b>  <a href="#">(EC) No. 197/2006</a>                      Candidate list as of <b>June 14<sup>th</sup>, 2022.</b></p>	<p>(Declaration against 235 SVHCs at the Article Level, per REACH O5A).</p> <p>The following REACH Candidate Substances of Very High Concern (SVHC) <b>are</b> Contained in Product above the Limit and Definition within REACH:</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #f2f2f2;"> <th style="padding: 5px;">SVHC Name</th> <th style="padding: 5px;">CAS#</th> <th style="padding: 5px;">Concentration</th> <th style="padding: 5px;">Used in</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Lead</td> <td style="padding: 5px;">7439-92-1</td> <td style="padding: 5px;">2.5-3.7%</td> <td style="padding: 5px;">Brass, copper-based alloys</td> </tr> </tbody> </table>	SVHC Name	CAS#	Concentration	Used in	Lead	7439-92-1	2.5-3.7%	Brass, copper-based alloys
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Lead	7439-92-1	2.5-3.7%	Brass, copper-based alloys						
<p><b>US TSCA.</b>  <a href="#">PBT Chemicals</a> restricted under the US Toxic Substance Control Act (TSCA).</p>	<p>(Declaration against 5 Persistent, Bioaccumulative, and Toxic (PBT) Chemicals).</p> <p>TSCA Section 6(h) PBT Chemicals <b>are not believed to be</b> Contained in Product above the Limit and Definition within TSCA but will be confirmed with Suppliers on a part number basis (None have been identified as of the date of this letter).</p>								

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Description	To the best of our knowledge:
<p><b>Halogen Content.</b> Compliance to various industry standards and customer specifications driven by halogen-free initiatives.</p>	<p>(Declaration against 3 different Halogens at the Homogeneous Material Level).</p> <p>Product <b>may contain</b> Chlorine <math>\leq</math> 900 PPM.            Product <b>may contain</b> Bromine <math>&gt;</math> 900 PPM in some Heat shrink.            Product <b>may contain</b> Flourine <math>&gt;</math> 900 PPM in some Insulators.</p>
<p><b>Industry Regulated Substances.</b> Certain Industries ban or restrict select substances for their applications.</p>	<p>(Declaration against 3 Industry Regulated Substances).</p> <p>Latex <b>is not</b> intentionally added to the product.            BPA <b>is not</b> intentionally added to product <math>&gt;</math> 50 PPM (.005%).            Animal by-products <b>are used</b> in specific Protective Cap part number(s).</p>
<p><b>California Proposition 65.</b> <a href="#">Prop 65 Chemical List</a> The state of California- (USA) requires a warning on products that may expose their customers to chemicals on the Prop 65 list.</p>	<p>(Declaration against 900+ Prop 65 Chemicals).</p> <p>Product <b>does contain</b> one or more California Prop 65 chemicals, including:</p> <p>Lead is used in Brass, Copper based alloys (2.5-3.7% Pb).            Diisononyl phthalate (DINP) is used in Protective Caps.            Nickel is used in Plating.            Beryllium Copper.</p>

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Description	To the best of our knowledge:
<p><b>Per- and Polyfluoroalkyl Substances (PFAS) and Perfluorooctane Sulfonate (POS)</b>  <a href="#">EPA Safe Drinking Water Act</a>                      These proposed regulations aim to set legally enforceable levels, known as Maximum Contaminant Levels (MCLs), for the following PFAS:</p> <ul style="list-style-type: none"> <li>• Perfluorooctanoic acid (PFOA)</li> <li>• Perfluorooctanesulfonic acid (PFOS)</li> <li>• Perfluorohexane sulfonic acid (PFHxS)</li> <li>• Perfluorononanoic acid (PFNA)</li> <li>• Perfluorobutane sulfonic acid (PFBS)</li> <li>• Hexafluoropropylene oxide dimer acid (HFPO-DA), commonly referred to as GenX Chemicals</li> </ul>	<p>(Declaration against 6 PFAS/POS substances).</p> <p>PTFE aka, Teflon, is part of the broad family of chemicals PFAS. PTFE is the primary insulator used across the entire coaxial cable and connector industry. It is used in most San-tron products.</p> <p>We are not aware of any proposed regulation to restrict the use of PTFE in electronics. Other PFAS chemicals have already been banned or proposed for ban in the EU.</p> <ul style="list-style-type: none"> <li>• PFOS: since 2009, perfluorooctane sulfonic acid and its derivatives (PFOS) have been included in the Stockholm Convention to restrict their use. PFOS has then been restricted under Annex I of the EU’s Persistent Organic Pollutants (POPs) Regulation. Annex I entry for PFOS was amended in 2020 to remove exemptions no longer needed in the EU.</li> <li>• PFOA: since 2019, perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds have been included in the Stockholm Convention to eliminate their use. PFOA has been banned under the POPs Regulation since 4 July 2020.</li> <li>• PFHxS: since 2022 perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds have been included in the Stockholm Convention to eliminate their use. Consequently, PFHxS will be restricted in the EU by the POPs regulation. Formal inclusion is planned in the first half of 2023.</li> <li>• LC-PFCAs: in 2021 Canada proposed to consider long-chain perfluorocarboxylic acids (C9-C21 PFCAs) for inclusion in the Stockholm Convention.</li> </ul> <p>Some use of PFAS has already been restricted in a few states. These bans restrict use of PFAS coating on paper plates, cups, food packaging or related use where the coating could transfer to a food product and become ingested.</p> <p>San-tron will continue to monitor proposed PFAS regulation for restriction of PTFE in electronics. Should such a proposal arise it represents a multi-billion-dollar problem for the worldwide electronics industry.</p>

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Description	To the best of our knowledge:												
<p><b>Specialty Metals Restriction.</b>  <a href="#">DFAR 252.225-7009</a>                      Restriction of acquisition of certain articles containing specialty metals</p>	<p>(Declaration against Stainless Steel, Kovar and Nickel Steel).</p> <p>When required under contractual agreement, the products listed below, and parts numbers with the plating suffix “-P”, are subject to annex 3V of the DFARS contract clause for specialty metals.</p> <table style="margin-left: auto; margin-right: auto; border: none;"> <tr> <td style="padding: 0 10px;">0406-40</td> <td style="padding: 0 10px;">1106-02</td> <td style="padding: 0 10px;">UG-492A/U</td> </tr> <tr> <td style="padding: 0 10px;">0407-09</td> <td style="padding: 0 10px;">2007-01-NS</td> <td style="padding: 0 10px;">UG-492D/U</td> </tr> <tr> <td style="padding: 0 10px;">0407-17-NS</td> <td style="padding: 0 10px;">UG-30D/U</td> <td style="padding: 0 10px;">UG-680/U</td> </tr> <tr> <td style="padding: 0 10px;">1106-01</td> <td style="padding: 0 10px;">UG-30E/U</td> <td style="padding: 0 10px;">UG-680A/U</td> </tr> </table>	0406-40	1106-02	UG-492A/U	0407-09	2007-01-NS	UG-492D/U	0407-17-NS	UG-30D/U	UG-680/U	1106-01	UG-30E/U	UG-680A/U
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1106-01	UG-30E/U	UG-680A/U											
<p><b>Raw Materials.</b>                      Metals used in our product</p>	<ul style="list-style-type: none"> <li>• DHP soft copper, CDA 122</li> <li>• Phosphor bronze, ASTM-B-159, Alloy 510 (.05% by weight Pb); ASTM-B-139, Alloy B2 or C54400</li> <li>• Brass: ASTM-B-16 (2.5-3.7% Pb) or ASTM-B-36</li> <li>• Stainless Steel, ASTM-A-582, SS-303 (subject to DFARS)</li> <li>• Beryllium Copper per ASTM-B-196 or ASTM-B-194</li> <li>• Kovar: ASTM-F15 (subject to DFARS)</li> <li>• Nickel Steel: ASTM-F30, Alloy 52, El #7 (subject to DFARS)</li> <li>• Silver Braze: Ag56/Cu22/Zn17/Sn5 Alloy #560</li> <li>• Solder: Sn96.5/Ag3.0/Cu0.5 Alloy (implemented April 2006)</li> <li>• Solder: Sn63Pb37                             <ul style="list-style-type: none"> <li>• Typically required by MIL/Aerospace applications.</li> <li>• Isolated to customer specific applications.                                     <ul style="list-style-type: none"> <li>▪ Permitted under 2011/65/EU, Annex III, para 7(b).</li> </ul> </li> <li>• Isolated to cable assembly series 9911-, 9912-, 9961-, 9967-, 9968-</li> </ul> </li> </ul>												

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Description	To the best of our knowledge:
<p><b>Raw Materials.</b> Non-Metals used in our product</p>	<ul style="list-style-type: none"> <li>• PTFE, ASTM-D-1710 – Fire rating V-0 (dielectric)</li> <li>• Delrin, Acetal Homopolymer</li> <li>• Fluoroloy-H</li> <li>• Rexolite</li> <li>• Neoflon PCTFE (Kel-F)</li> <li>• Polysulfone PSU-1000</li> <li>• Ultem-1000 Polyetherimide</li> <li>• Silicon rubber ZZ-R-765, Gr. 50, red – Fire rating N/A (gasket)</li> <li>• Rubber Buna - N, fuel resistant per MIL-P-5315 (gasket)</li> <li>• Silver plated aluminum filled silicone per MIL-G-83528 (gasket)</li> <li>• Silicon rubber per AN- 6227-17 Class B</li> <li>• Thick wall polyolefin, MIL-I-23053/4, class3 – Fire rating UL 224 (shrink sleeve)</li> <li>• Thin wall polyolefin, MIL-I-23053/5, class1 – (shrink sleeve)</li> <li>• 2 component epoxy</li> <li>• Glass: Corning # 10, 7052</li> <li>• PVC Caps (protective packaging) contains 34.6% DEHP (not REACH compliant)</li> </ul>
<p><b>Raw Materials.</b> Finishes used in our product</p>	<ul style="list-style-type: none"> <li>• Silver per ASTM-B700, Semi-bright</li> <li>• Tarniban: 8% stannous chloride (anhydrous)</li> <li>• Trivalent Chromium Passivation</li> <li>• Nickel per AMS-QQ-N-290, Class 1, Bright</li> <li>• Electroless Nickel per Mil-C-26074, Class 1, Bright</li> <li>• Gold per ASTM-B488, Type II, Grade C, reference Class 0.76</li> <li>• Albaloy (Tri-M3) composition: 55-60% Cu, 20-25% Sn, 15-20% Zn Alternative 50-55% Cu, 30-35% Sn, 13-17% Zn Semi-Bright</li> <li>• Black Chrome per Mil-C-14538</li> <li>• Cadmium per ASTM-A165 (RoHS non-compliant)</li> <li>• Copper per Mil-C-14550, reference Class 4</li> <li>• Tin per ASTM-B545, matte finish</li> <li>• Chemical Passivation per ASTM-A-967.</li> </ul>