

Chomerics Americas Product Environmental Quality (PEQ) Compliance Summary Description and Instructions for use.

Chomerics Americas products must comply with many US, European Union (EU), and other Environmental, Health, and Safety Regulations. Many of Chomerics Americas products must also comply with Chomerics Material Substance Requirements and Industry Specifications that are more stringent than the Regulations. Chomerics Americas collectively calls these Regulations, Requirements, and Industry Specifications Product Environmental Quality (PEQ) Requirements.

Chomerics Americas products comply with PEQ Requirements by using raw materials suppliers that comply with PEQ Requirements, and by conducting limited testing on our products. The purpose of this Summary is to inform Customers of the PEQ Compliance status of Chomerics Americas Products. Chomerics does not make blanket compliance statements about our products.

Thank You - Chomerics Americas EHS Department

The PEQ Summary certifies PEQ compliance status for Chomerics Americas Products for the following Regulations and Industry Specifications:

Chomerics Products Column - Chomerics Americas Products categorized according to Major Product Line, Part Family, and Part Number Sequence. See Chomerics Technical Bulletins posted on www.chomerics.com for details on part number Part Family and Part Number Sequence information .

*Other requested data is not readily available, and will only be provided by Chomerics when requested by the appropriate Chomerics Sales contact for the part or product.

*Additional information (including Full Material Disclosures) will ONLY be provided for requests routed to Chomerics EHS through the appropriate Chomerics sales contact.

EU ROHS Column – EU Directive 2002/95 (Restrictions on Hazardous Substances) bans selling new electrical and electronic equipment in the EU that contains specific Substances above limits (limits and Substances listed below):

No More Than 1,000 parts per million - Lead, Mercury, Hexavalent Chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants.
No More Than 100 parts per million - Cadmium.

<http://www.rohs.gov.uk/>

The above limits apply to "homogeneous materials", which are materials that cannot be

mechanically separated. Mechanical separation methods include but are not limited to grinding, peeling, tearing, and cutting.

EU PFOS Column – Product complies with EU limits on PerFluoroOctaneSulfonates.

EU Directive 2006/122/EC became effective in Summer 2008 and prohibits using perfluorooctane sulfonates (PFOS). PFOS may not be in preparations at a concentration equal to or higher than 0.005% of mass. PFOS may not be in semi-finished goods at concentrations greater than 0.1% of mass. PFOS must be less than 1 ug/m² on textiles/coated materials.

<http://www.just-style.com/articlerelated.aspx?id=91180&lk=nap>

Photo resists or anti-reflective coatings for photolithography processes, photographic coatings applied to films, papers, or printing plates and mist suppressants for non-decorative hard chromium (VI) plating and wetting agents for use in controlled electroplating systems (where the amount of PFOS released into the environment is minimized) may contain PFOS in larger quantities. The exception granted for chromium plating processes does not apply to decorative chromium plating.

EU REACH Column – Registration, Evaluation, and Authorisation of Chemicals Candidate List SVHCs as of 12/19/2011

http://ec.europa.eu/environment/chemicals/reach/reach_intro.htm.

Articles - Products with a specific shape, surface or design which determines their function more than their chemical composition. REACH requires Chomerics to inform requestors of ECHA Candidate List Substances of Very High Concern (SVHC) > 0.1% by total weight in Articles.

Article Statement - Substances are encapsulated within the matrix, therefore, no exposure to these materials is expected during proper use/handling of this product.

Preparations - Uncured mixtures of Substances, or mixtures of Substances not in final shape or form. Caleb Management Services Ltd (Caleb) is Chomerics Americas Only Representative (OR) for Parker's obligations under Title II of the EU REACH Regulation [ref 1] and Article 8 paragraphs 1, 2 and 3 of REACH for Substances contained in Chomerics Preparations that are manufactured outside, then imported into the EU. According to Article 8, Paragraph 3, Importers into the EU of Chomerics Preparations are Downstream Users (DUs). In cases where Chomerics is the DU of Substances in Chomerics Preparations, Pre-registration and Registration cover is provided by the applicable upstream supplier's OR as allowed by REACH.

When Used as an Article:

No (12/19/2011) Candidate List SVHC >0.1%
Article Statement (EU & US OSHA)

When Used as a Preparation:

Pre-Registration Requirements Met

IEC Halogen Free Column – International Electrochemical Committee Specification

61249-2-21

<900 ppm maximum chlorine

<900 ppm maximum bromine
<1500 ppm maximum total halogens

<http://www.ipc.org/ContentPage.aspx?pageid=IEC-Definition-of-Halogen-Free>

JIG Declarable Substance List Column -

Joint Industry Guideline - Material Composition Declaration for Electrotechnical Products
JIG-101 Ed. 3.0

[http://www.ce.org/Standards/JIG-101_Ed_3_0_\(2\).pdf](http://www.ce.org/Standards/JIG-101_Ed_3_0_(2).pdf)

JIG-101 R (Regulated - Substances that are legally banned/restricted or have legal reporting requirements.**NOTE- A number of Chomerics Products contain Nickel and are JIG R compliant for internal applications. - See JIG 101 Tab

JIG-101 A (For Assessment Only - Substances likely to become regulated) - See JIG 101 Tab

JIG-101 I (For Information Only - Non-Regulated Substances that are not Regulated or likely to become regulated) - See JIG 101 Tab

Meets Chomerics Substance Requirements Column -

Level 1: Substances are banned for use in parts and materials

ROHS Substances

Polychlorinated biphenyls (PCB), naphthalenes (PCN), terphenyls (PCT)

Short-chain chlorinated paraffins (SCCP)

Tributyl tin (TBT), Triphenyl tin (TPT)

Asbestos

Formaldehyde

Polyvinyl chloride (PVC) and PVC blends

Beryllium oxide

Hydrofluorocarbons (HFC), Perfluorocarbon (PFC)

Specific Benzotriazole (CAS 3846-71-7)

Level 2: These Substances will become LEVEL 1 Substances on the given date for parts and materials delivered to Chomerics. There are no LEVEL 2 Substances as of the document Revision Date.

• Level 3: The following substances will become LEVEL 2 substances in phases depending on the availability of alternative parts and materials that satisfy the intended uses. Chomerics must be informed if they are intentionally used, and are present in parts and materials delivered to Chomerics.

Beryllium Copper

Specific phthalates (DEHP, DBP, BBP, DINP, DNOP, DNHP)

Other chlorinated and/or brominated organic compounds

The following Azo CAS Numbers: 92-67-1, 106-47-8, 838-88-0, 95-80-7, 97-56-3, 119-90-4, 92-87-5, 615-05-4, 120-71-8, 137-17-7, 99-55-8, 119-93-7, 95-69-2, 101-77-9, 101-14-4, 90-04-0, 139-65-1, 91-59-8, 91-94-1, 101-80-4, 60-09-3, 95-53-4.

• Exemptions: Specific exemptions apply that are too numerous to list here.

ODC Free- Ozone Depleting Chemicals/Substances Free Column-

CFCs, HCFCs, HBFCs, and halons and their substitutes HFCs, HCs, and PFCs.

<http://www.epa.gov/ozone/science/ods/classone.html>

Compliance Representation

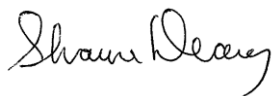
As a representative of Chomerics Division of Parker Hannifin, I state to the best of my knowledge the product(s) indicated in the Part Number Summary comply with the maximum allowable ROHS concentrations referenced in the Instructions Tab.

Compliance with Regulatory Requirements/Customer Requirements/Industry Standards other than EU ROHS referenced in this table

Chomerics representation is based on Material Safety Data Sheets ("MSDS") provided by Chomerics Suppliers pursuant to requirements established by the United States Department of Labor's Occupational Safety and Health Administration ("OSHA"), and additional information provided by Chomerics Suppliers. Chomerics does not test for Substances. Chomerics does not certify to concentrations lower than <0.1% by total weight in Articles. However, to the best of our knowledge, Chomerics' Suppliers do not use Candidate List SVHCs referenced in the Instructions Tab in materials they supply to Chomerics.

Chomerics' Representation does not include disclosure of "impurities" (chemical substances that are unintentionally present, and are not present for the purpose of imparting or changing the characteristics of a material or product). Chomerics does not analyze our raw materials for Candidate List SVHC as declared by ECHA, nor do we require our Suppliers to do so. Since conditions of use are outside of Chomerics control, Chomerics makes no warranties, express or implied, and assumes no liability related to any use of this information.

Name/Title:



EH&S Manager - Chomerics Americas

Date: 3/30/2011

JIG-101 Ed 3 Substance List

March 2010

Substance Name	Threshold	Rationale Level	Revision Date
Asbestos	Intentionally added	R	4/28/2009
Azocolourants and azodyes which form certain aromatic amines	0.003 % by weight (300 ppm) of the finished textile/leather article	R	4/28/2009
Beryllium oxide	0.1 % by weight (1000 ppm) of the product	I	4/28/2009
Brominated Flame Retardants (other than PBBs, PBDEs or HBCDD)	0.1 % by weight (1000 ppm) of the product	I	4/28/2009
Cadmium/Cadmium Compounds-all except batteries **	0.01 % by weight (100 ppm) of homogeneous materials	R	4/28/2009
Cadmium/Cadmium Compounds- batteries**	0.0005 % by weight (5 ppm) of battery	R	4/28/2009
Chromium VI	0.1 % by weight (1,000 ppm) of homogeneous materials	R	4/28/2009
Cobalt dichloride	0.1% by weight (1,000 ppm) of the product	R	3/31/2010
Diarsenic Pentoxide	0.1 % by weight (1,000 ppm) of the product	R	4/28/2009
Diarsenic Trioxide	0.1 % by weight (1,000 ppm) of the product	R	4/28/2009
Dibutyltin (DBT) compounds	0.1% by weight (1,000 ppm) of tin in a material	R	3/31/2010
Dioctyltin (DOT) compounds	0.1% by weight (1,000 ppm) of tin in a material	R	3/31/2010
Dimethyl fumarate	0.00001% by weight	R	3/31/2010
Fluorinated greenhouse gases (HFC,PFC,SF6)	Intentionally added	R	4/28/2009
Formaldehyde-general category of articles	Intentionally added	R	4/28/2009
Formaldehyde-in textiles	0.0075 % by weight (75 ppm) of textile product	R	4/28/2009
Hexabromocyclododecane (HBCDD) and all major diastereoisomers	0.1 % by weight (1,000 ppm) of the product	R	4/28/2009
Lead/Lead compounds-general category of articles	0.1 % by weight (1000 ppm) of homogeneous materials	R	4/28/2009
Lead/Lead compounds in children toys	0.03% by weight (300 ppm) of children's product	R	4/28/2009
Lead/Lead compounds in paint and surface coatings of toys	0.009 % by weight of surface coating	R	4/28/2009
Lead/Lead compounds in cables/cords with thermoset/thermoplastic coatings	0.03 % by weight (300 ppm) of surface coating	R	4/28/2009
Lead/lead compounds in batteries	0.004 % by weight (40 ppm) of battery	R	4/28/2009
Mercury/Mercury compounds-all	Intentionally added or 0.1 % (1000 ppm) of homogeneous material	R	4/28/2009
Mercury/Mercury compounds in batteries	0.0001% by weight (1 ppm) of battery	R	4/28/2009
Nickel	Intentionally added	R	4/28/2009
Ozone Depleting Substances	Intentionally added	R	4/28/2009
Perchlorates	0.0000006 % by weight (0.006 ppm) of the product	R	4/28/2009
Perfluorooctane sulfonate (PFOS)	Intentionally added	R	4/28/2009
Phenol,2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)	Intentionally added	R	4/28/2009
Phthalates(DEHP,DBP,BBP)-general category of articles	0.1 % by weight (1,000 ppm) of the product	R	4/28/2009
Phthalates (DINP,DIDP,DNOP) in child care articles	0.1 % by weight (1000 ppm) of plasticized material	R	4/28/2009
Polybrominated Biphenyls (PBBs)	0.1 % by weight (1000 ppm) in homogeneous material	R	4/28/2009
Polybrominated Diphenylethers (PBDEs)-all	0.1 % by weight (1000 ppm) in homogeneous material	R	4/28/2009
Deca-Bromodiphenylether (Deca-BDE) (PBDE)	Intentionally added	R	4/28/2009
Polychlorinated Biphenyls (PCBs) and specific substitutes	Intentionally added	R	4/28/2009
Polychlorinated Terphenyls (PCTs)	Intentionally added	R	4/28/2009
Polychlorinated Naphthalenes (more than 3 chlorine atoms)	Intentionally added	R	4/28/2009
Polyvinyl Chloride (PVC)	0.1 % by weight (1000 ppm) of product	I	4/28/2009
Radioactive Substances	Intentionally added	R	4/28/2009
Shortchain Chlorinated Paraffins (C10 – C13)	0.1 % by weight (1,000 ppm) of product	R	4/28/2009
Certain Tributyl Tin (TBT) and Triphenyl Tin (TPT) compounds	Intentionally added	R	4/28/2009
Tributyl Tin Oxide (TBTO)	Intentionally added or 0.1 % by weight (1,000 ppm) of the product	R	4/28/2009
Tris (2-chloroethyl) phosphate (TCEP)	0.1 % by weight (1,000 ppm) of the product	A	4/28/2009