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REV 000

September 28, 2018

### Beadalon / Artistic Wire REACH Compliance Statement

Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

To Our Valued Customers:

#### REACH

For a product to be compliant with the REACH standard it must meet specified standards for the following chemicals. The chemicals must likely to be found in Beading/Jewelry articles are indicated below. The full list of all chemicals is also listed.

##### Cadmium

[http://exporthelp.europa.eu/update/requirements/ehir\\_eu14\\_04v001/eu/auxi/eu\\_chejewel\\_entry23\\_annexXVII\\_r1907\\_2006.pdf](http://exporthelp.europa.eu/update/requirements/ehir_eu14_04v001/eu/auxi/eu_chejewel_entry23_annexXVII_r1907_2006.pdf)

##### Nickel

[http://exporthelp.europa.eu/update/requirements/ehir\\_eu14\\_04v001/eu/auxi/eu\\_cherest\\_e\\_ntry27\\_annexXVII\\_r1907\\_2006.pdf](http://exporthelp.europa.eu/update/requirements/ehir_eu14_04v001/eu/auxi/eu_cherest_e_ntry27_annexXVII_r1907_2006.pdf)

##### Lead

[http://exporthelp.europa.eu/update/requirements/ehir\\_eu14\\_04v001/eu/auxi/eu\\_chejewel\\_entry63\\_annexXVII\\_r1907\\_2006.pdf](http://exporthelp.europa.eu/update/requirements/ehir_eu14_04v001/eu/auxi/eu_chejewel_entry63_annexXVII_r1907_2006.pdf)

##### Azo Dyes

[http://exporthelp.europa.eu/update/requirements/ehir\\_eu14\\_02v001/eu/auxi/eu\\_cherest\\_a\\_ppendix8\\_annexXVII\\_r1907\\_2006.pdf](http://exporthelp.europa.eu/update/requirements/ehir_eu14_02v001/eu/auxi/eu_cherest_a_ppendix8_annexXVII_r1907_2006.pdf)

##### Chromium VI in Leather

The restriction is that the chromium VI content should not exceed 3.0 mg/kg.

##### Full List

[http://echa.europa.eu/chem\\_data/authorisation\\_process/candidate\\_list\\_table\\_en.asp](http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp)

All Beadalon/ Artistic Wire "WIRE" products comply with REACH and RoHS.

The remainder of Beadalon/ Artistic Wire products comply or do not comply at the product level. The main reason for non-compliance is the use of a nickel strike in the plating process. In most cases, the process has been modified to be "Nickel Compliant" but some products have not been modified as of this writing. A full list of all products and compliance status is available for review. Please contact your sales representative or customer service.

Sincerely,

A handwritten signature in dark ink, appearing to read "Daniel P. Clark", with a long, sweeping horizontal line extending to the right.

Daniel P. Clark  
V.P. Business Development and Operations  
Wire and Cable Specialties, Inc.

▼ **M5**

Column 1 Designation of the substance, of the group of substances or of the mixture	Column 2 Conditions of restriction
<p>23. Cadmium</p> <p>CAS No 7440-43-9</p> <p>EC No 231-152-8 and its compounds</p>	<p>For the purpose of this entry, the codes and chapters indicated in square brackets are the codes and chapters of the tariff and statistical nomenclature of Common Customs Tariff as established by Council Regulation (EEC) No 2658/87 (*).</p> <p>► <b>M13</b> ► <b>M17</b> 1. Shall not be used in mixtures and articles produced from the following synthetic organic polymers (hereafter referred to as plastic material):</p> <ul style="list-style-type: none"> <li>— polymers or copolymers of vinyl chloride (PVC) [3904 10] [3904 21]</li> <li>— polyurethane (PUR) [3909 50]</li> <li>— low-density polyethylene (LDPE), with the exception of low-density polyethylene used for the production of coloured masterbatch [3901 10]</li> <li>— cellulose acetate (CA) [3912 11]</li> <li>— cellulose acetate butyrate (CAB) [3912 11]</li> <li>— epoxy resins [3907 30]</li> <li>— melamine-formaldehyde (MF) resins [3909 20]</li> <li>— urea-formaldehyde (UF) resins [3909 10]</li> <li>— unsaturated polycesters (UP) [3907 91]</li> <li>— polyethylene terephthalate (PET) [3907 60]</li> <li>— polybutylene terephthalate (PBT)</li> <li>— transparent/general-purpose polystyrene [3903 11]</li> <li>— acrylonitrile methylmethacrylate (AMMA)</li> <li>— cross-linked polyethylene (VPE)</li> <li>— high-impact polystyrene</li> <li>— polypropylene (PP) [3902 10]</li> </ul> <p>Mixtures and articles produced from plastic material as listed above shall not be placed on the market if the concentration of cadmium (expressed as Cd metal) is equal to or greater than 0,01 % by weight of the plastic material. ◀</p>

## ▼ M5

Column 1 Designation of the substance, of the group of substances or of the mixture	Column 2 Conditions of restriction
	<p>► <b>C5</b> By way of derogation, the second subparagraph shall not apply to articles placed on the market before 10 December 2011. ◀</p> <p>The first and second subparagraphs apply without prejudice to Council Directive 94/62/EC (**) and acts adopted on its basis.</p> <p>► <b>M17</b> By 19 November 2012, in accordance with Article 69, the Commission shall ask the European Chemicals Agency to prepare a dossier conforming to the requirements of Annex XV in order to assess whether the use of cadmium and its compounds in plastic material, other than that listed in subparagraph 1, should be restricted. ◀</p> <p>2. Shall not be used in paints [3208] [3209].</p> <p>For paints with a zinc content exceeding 10 % by weight of the paint, the concentration of cadmium (expressed as Cd metal) shall not be equal to or greater than 0,1 % by weight.</p> <p>Painted articles shall not be placed on the market if the concentration of cadmium (expressed as Cd metal) is equal to or greater than 0,1 % by weight of the paint on the painted article.</p> <p>3. By way of derogation, paragraphs 1 and 2 shall not apply to articles coloured with mixtures containing cadmium for safety reasons.</p> <p>4. By way of derogation, paragraph 1, second subparagraph shall not apply to:</p> <ul style="list-style-type: none"> <li>— mixtures produced from PVC waste, hereinafter referred to as 'recovered PVC',</li> <li>— mixtures and articles containing recovered PVC if their concentration of cadmium (expressed as Cd metal) does not exceed 0,1 % by weight of the plastic material in the following rigid PVC applications: <ul style="list-style-type: none"> <li>(a) profiles and rigid sheets for building applications;</li> <li>(b) doors, windows, shutters, walls, blinds, fences, and roof gutters;</li> <li>(c) decks and terraces;</li> <li>(d) cable ducts;</li> <li>(e) pipes for non-drinking water if the recovered PVC is used in the middle layer of a multilayer pipe and is entirely covered with a layer of newly produced PVC in compliance with paragraph 1 above.</li> </ul> </li> </ul>

## ▼ M5

Column 1 Designation of the substance, of the group of substances or of the mixture	Column 2 Conditions of restriction
	<p>Suppliers shall ensure, before the placing on the market of mixtures and articles containing recovered PVC for the first time, that these are visibly, legibly and indelibly marked as follows: 'Contains recovered PVC' or with the following pictogram:</p> <div data-bbox="938 548 1084 720" data-label="Image"> </div> <p>In accordance with Article 69 of this Regulation, the derogation granted in paragraph 4 will be reviewed, in particular with a view to reducing the limit value for cadmium and to reassess the derogation for the applications listed in points (a) to (e), by 31 December 2017. ◀</p> <p>5. For the purpose of this entry, 'cadmium plating' means any deposit or coating of metallic cadmium on a metallic surface.</p> <p>Shall not be used for cadmium plating metallic articles or components of the articles used in the following sectors/applications:</p> <p>(a) equipment and machinery for:</p> <ul style="list-style-type: none"> <li>— food production [8210] [8417 20] [8419 81] [8421 11] [8421 22] [8422] [8435] [8437] [8438] [8476 11]</li> <li>— agriculture [8419 31] [8424 81] [8432] [8433] [8434] [8436]</li> <li>— cooling and freezing [8418]</li> <li>— printing and book-binding [8440] [8442] [8443]</li> </ul> <p>(b) equipment and machinery for the production of:</p> <ul style="list-style-type: none"> <li>— household goods [7321] [8421 12] [8450] [8509] [8516]</li> <li>— furniture [8465] [8466] [9401] [9402] [9403] [9404]</li> <li>— sanitary ware [7324]</li> <li>— central heating and air conditioning plant [7322] [8403] [8404] [8415]</li> </ul>

## ▼ M5

Column 1 Designation of the substance, of the group of substances or of the mixture	Column 2 Conditions of restriction
	<p>In any case, whatever their use or intended final purpose, the placing on the market of cadmium-plated articles or components of such articles used in the sectors/applications listed in points (a) and (b) above and of articles manufactured in the sectors listed in point (b) above is prohibited.</p> <p>6. The provisions referred to in paragraph 5 shall also be applicable to cadmium-plated articles or components of such articles when used in the sectors/applications listed in points (a) and (b) below and to articles manufactured in the sectors listed in (b) below:</p> <p>(a) equipment and machinery for the production of:</p> <ul style="list-style-type: none"> <li>— paper and board [8419 32] [8439] [8441] textiles and clothing [8444] [8445] [8447] [8448] [8449] [8451] [8452]</li> </ul> <p>(b) equipment and machinery for the production of:</p> <ul style="list-style-type: none"> <li>— industrial handling equipment and machinery [8425] [8426] [8427] [8428] [8429] [8430] [8431]</li> <li>— road and agricultural vehicles [chapter 87]</li> <li>— rolling stock [chapter 86]</li> <li>— vessels [chapter 89]</li> </ul> <p>7. However, the restrictions in paragraphs 5 and 6 shall not apply to:</p> <ul style="list-style-type: none"> <li>— articles and components of the articles used in the aeronautical, aerospace, mining, offshore and nuclear sectors whose applications require high safety standards and in safety devices in road and agricultural vehicles, rolling stock and vessels,</li> <li>— electrical contacts in any sector of use, where that is necessary to ensure the reliability required of the apparatus on which they are installed.</li> </ul> <p>► <b>M13</b> 8. Shall not be used in brazing fillers in concentration equal to or greater than 0,01 % by weight.</p> <p>Brazing fillers shall not be placed on the market if the concentration of cadmium (expressed as Cd metal) is equal to or greater than 0,01 % by weight.</p> <p>For the purpose of this paragraph brazing shall mean a joining technique using alloys and undertaken at temperatures above 450 °C.</p>

▼ **M5**

Column 1 Designation of the substance, of the group of substances or of the mixture	Column 2 Conditions of restriction
	<p>9. By way of derogation, paragraph 8 shall not apply to brazing fillers used in defence and aerospace applications and to brazing fillers used for safety reasons.</p> <p>10. Shall not be used or placed on the market if the concentration is equal to or greater than 0,01 % by weight of the metal in:</p> <p>(i) metal beads and other metal components for jewellery making;</p> <p>(ii) metal parts of jewellery and imitation jewellery articles and hair accessories, including:</p> <ul style="list-style-type: none"> <li>— bracelets, necklaces and rings,</li> <li>— piercing jewellery,</li> <li>— wrist-watches and wrist-wear,</li> <li>— brooches and cufflinks.</li> </ul> <p>► <b>C5</b> 11. By way of derogation, paragraph 10 shall not apply to articles placed on the market before 10 December 2011 and jewellery more than 50 years old on 10 December 2011. ◀ ◀</p> <p>(*) OJ L 256, 7.9.1987, p. 42.  (**) OJ L 365, 31.12.1994, p. 10.</p>

## ▼ M5

Column 1 Designation of the substance, of the group of substances or of the mixture	Column 2 Conditions of restriction
<p>27. Nickel</p> <p>CAS No 7440-02-0</p> <p>EC No 231-111-4 and its compounds</p>	<p>1. Shall not be used:</p> <p>(a) in any post assemblies which are inserted into pierced ears and other pierced parts of the human body unless the rate of nickel release from such post assemblies is less than 0,2 µg/cm<sup>2</sup>/week (migration limit);</p> <p>(b) in articles intended to come into direct and prolonged contact with the skin such as:</p> <ul style="list-style-type: none"> <li>— earrings,</li> <li>— necklaces, bracelets and chains, anklets, finger rings,</li> <li>— wrist-watch cases, watch straps and tighteners,</li> <li>— rivet buttons, tighteners, rivets, zippers and metal marks, when these are used in garments,</li> </ul> <p>if the rate of nickel release from the parts of these articles coming into direct and prolonged contact with the skin is greater than 0,5 µg/cm<sup>2</sup>/week.</p> <p>(c) in articles referred to in point (b) where these have a non-nickel coating unless such coating is sufficient to ensure that the rate of nickel release from those parts of such articles coming into direct and prolonged contact with the skin will not exceed 0,5 µg/cm<sup>2</sup>/week for a period of at least two years of normal use of the article.</p> <p>2. Articles which are the subject of paragraph 1 shall not be placed on the market unless they conform to the requirements set out in that paragraph.</p> <p>3. The standards adopted by the European Committee for Standardisation (CEN) shall be used as the test methods for demonstrating the conformity of articles to paragraphs 1 and 2.</p>



▼ **M18**

Column 1 Designation of the substance, of the group of substances or of the mixture	Column 2 Conditions of restriction
<p>63. Lead</p> <p>CAS No 7439-92-1</p> <p>EC No 231-100-4</p> <p>and its compounds</p>	<p>1. Shall not be placed on the market or used in any individual part of jewellery articles if the concentration of lead (expressed as metal) in such a part is equal to or greater than 0,05 % by weight.</p> <p>2. For the purposes of paragraph 1:</p> <p>(i) 'jewellery articles' shall include jewellery and imitation jewellery articles and hair accessories, including:</p> <p>(a) bracelets, necklaces and rings;</p> <p>(b) piercing jewellery;</p> <p>(c) wrist watches and wrist-wear;</p> <p>(d) brooches and cufflinks;</p> <p>(ii) 'any individual part' shall include the materials from which the jewellery is made, as well as the individual components of the jewellery articles.</p> <p>3. Paragraph 1 shall also apply to individual parts when placed on the market or used for jewellery-making.</p> <p>4. By way of derogation, paragraph 1 shall not apply to:</p> <p>(a) crystal glass as defined in Annex I (categories 1, 2, 3 and 4) to Council Directive 69/493/EEC (*****);</p> <p>(b) internal components of watch timepieces inaccessible to consumers;</p> <p>(c) non-synthetic or reconstructed precious and semiprecious stones (CN code 7103, as established by Regulation (EEC) No 2658/87), unless they have been treated with lead or its compounds or mixtures containing these substances;</p> <p>(d) enamels, defined as vitrifiable mixtures resulting from the fusion, vitrification or sintering of minerals melted at a temperature of at least 500 °C.</p> <p>5. By way of derogation, paragraph 1 shall not apply to jewellery articles placed on the market for the first time before 9 October 2013 and jewellery articles produced before 10 December 1961.</p> <p>6. By 9 October 2017, the Commission shall re-evaluate this entry in the light of new scientific information, including the availability of alternatives and the migration of lead from the articles referred to in paragraph 1 and, if appropriate, modify this entry accordingly.</p>

► **M18** (\*\*\*\*\*) OJ L 326, 29.12.1969, p. 36. ◀

▼ **C1**

## Appendix 8

▼ **M5**

## Entry 43 — Azocolourants — List of aromatic amines

▼ **C1**

## List of aromatic amines

	CAS No	Index No	EC No	Substances
1.	92-67-1	612-072-00-6	202-177-1	biphenyl-4-ylamine 4-aminobiphenyl xenylamine
2.	92-87-5	612-042-00-2	202-199-1	benzidine
3.	95-69-2		202-441-6	4-chloro-o-toluidine
4.	91-59-8	612-022-00-3	202-080-4	2-naphthylamine
5.	97-56-3	611-006-00-3	202-591-2	o-aminoazotoluene 4-amino-2',3'-dimethylazobenzene 4-o-tolylazo-o-toluidine
6.	99-55-8		202-765-8	5-nitro-o-toluidine
7.	106-47-8	612-137-00-9	203-401-0	4-chloroaniline
8.	615-05-4		210-406-1	4-methoxy-m-phenylenediamine
9.	101-77-9	612-051-00-1	202-974-4	4,4'-methylenedianiline 4,4'-diaminodiphenylmethane
10.	91-94-1	612-068-00-4	202-109-0	3,3'-dichlorobenzidine 3,3'-dichlorobiphenyl-4,4'-ylenediamine
11.	119-90-4	612-036-00-X	204-355-4	3,3'-dimethoxybenzidine o-dianisidine
12.	119-93-7	612-041-00-7	204-358-0	3,3'-dimethylbenzidine 4,4'-bi-o-toluidine
13.	838-88-0	612-085-00-7	212-658-8	4,4'-methylenedi-o-toluidine
14.	120-71-8		204-419-1	6-methoxy-m-toluidine p-cresidine
15.	101-14-4	612-078-00-9	202-918-9	4,4'-methylene-bis-(2-chloro-aniline) 2,2'-dichloro-4,4'-methylene-dianiline
16.	101-80-4		202-977-0	4,4'-oxydianiline
17.	139-65-1		205-370-9	4,4'-thiodianiline
18.	95-53-4	612-091-00-X	202-429-0	o-toluidine 2-aminotoluene
19.	95-80-7	612-099-00-3	202-453-1	4-methyl-m-phenylenediamine
20.	137-17-7		205-282-0	2,4,5-trimethylaniline
21.	90-04-0	612-035-00-4	201-963-1	o-anisidine 2-methoxyaniline
22.	60-09-3	611-008-00-4	200-453-6	4-amino azobenzene