

Supplier Declaration of Conformity to European Union Directives: 2011/65/EU - RoHS2 and 2015/863

European Union Directives: 2011/65/EU and 2015/863, restricts the use of several hazardous substances in the categories defined in Table 2. This self-declaration covers the compliance of fastener materials to the material composition limits of the restricted substances listed in the Directive and subsequent Commission Decisions and amendments.

The following fasteners and secondary processes are **RoHS2 and RoHS3 compliant**:

- Unplated low and medium carbon steel,
- Alloy steel,
- Copper and its alloys,
- Aluminum and its alloys (except AA2011)
- Stainless steel
- EcoGuard[™]
- Mechanical galvanizing
- Hot Dipped Galvanized
- Thermal and chemical black oxide finishes,
- Electrodeposited zinc plating with clear chromates (**trivalent**)
- Nylon fasteners & nylon material used for patches, pellets, and inserts
- Passivation Processes

The materials used in these fasteners/coatings contain less than the maximum limits shown in Table 1 for:

- Lead (Pb)
- Cadmium (Cd),
- Cr+6 (Hexavalent Chromium)
- Polybrominated biphenyls (PBB),
- Benzyl butyl phthalate (BBP)
- Polybrominated diphenyl ethers (PBDE),
- Bis (2-Ethylhexyl) phthalate (DEHP)
- Mercury (Hg).
- Dibutyl phthalate (DBP)
- Diisobutyl phthalate (DIBP)

In addition, the lead alloying element in steel is less than 0.35% by weight in accordance with Table 1. For aluminum alloys, the lead alloying element is less than 0.4% for both recycled and alloys used for machining purposes. Copper alloys, the lead content shall not exceed 4% by weight in accordance with Table 1.

Table 1 Compliance Matrix for Fasteners

Substance	Maximum Limit (wt.%)		Exemption
Lead (Pb)	Carbon, Alloy Steels and Hot Dipped Galvanized	0.35%	6(a)-I
	Copper Alloys	4.0%	6(c)
	Aluminum Alloys	0.4%	6(b)-I (scrap recycling) 6(b)-II (machining purposes)
Cadmium (Cd)	0.01%		
Mercury (Hg)	0.1%		
Hexavalent Chromium (Cr VI)	0.1%		
Polybrominated Biphenyls (PBB)	0.1%		
Polybrominated Diphenyl ethers (PBDE)	0.1%		
Bis (2-Ethylhexyl) Phthalate (DEHP)	0.1%		
Benzyl butyl phthalate (BBP)	0.1%		
Dibutyl phthalate (DBP)	0.1%		
Diisobutyl phthalate (DIBP)	0.1%		

Fastenal has converted all fasteners plated with electrodeposited zinc and clear chromate (more commonly known as “clear zinc”) from hexavalent chromate (Cr +6) or (CR VI) to trivalent chromate (Cr +3). Fastenal has been restricting its purchasing to compliant fasteners since October 1, 2006.

Catalog parts plated with **electrodeposited zinc and yellow chromate (more commonly referred to as “yellow zinc”)** contain approximately 1-3 micrograms per cm² of hexavalent chromium (Cr +6) and **do not comply** with the 0.1 wt% maximum concentration level. Therefore, standard catalog parts that have electroplated yellow zinc plating, will not comply with Directive 2015/863 (RoHS3).

If your application requires a coating other than clear zinc, Fastenal has multiple sources for chromium free coatings that will meet or exceed the performance of standard platings containing hexavalent chromium. Please contact your local Fastenal Store for pricing and assistance on selecting the right coating for your application.

Additional Directive Information

This information does not purport to address all Directive requirements and should only be used as a preliminary guide. It is recommended that the Directives pertaining to your product be read in their entirety, along with all pertinent subsequent Commission Decisions.

Table 2 - Product Categories Required to Comply with RoHS and RoHS2

#	Category
1	Large household appliances
2	Small household appliances
3	IT and Telecommunications equipment
4	Consumer equipment
5	Lighting equipment
6	Electrical and electronic tools (with the exception of large-scale stationary industrial tools)
7	Toys, leisure and sports equipment
8	Medical devices
9	Monitoring and control instruments
10	Automatic dispensers
11	All other electrical equipment not covered by any of these categories





Christopher B. Williamson
Director of Quality and Engineering