



European Union Directive Related to
Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
Regulation (EC) No. 1907/2006

February 2017

REACH is primarily concerned with import to the EU of listed “substances” in amounts greater than one “tonne.” Glenair does not sell “substances.”

REACH also addresses “articles” to be imported into the EU. If such articles contain substances “intended to be released” in amounts greater than one “tonne” per year, that substance would need to be registered. This situation does not apply to Glenair products.

The lists of “substances of very high concern” published on October 28, 2008, January 13, 2010, March 30, 2010, June 18, 2010, December 15, 2010, June 20, 2011, December 19, 2011, June 18, 2012, December 19, 2012, June 20, 2013, December 16, 2013, June 16, 2014, December 17, 2014, June 15, 2015, December 17, 2015, June 20, 2016 and January 12, 2017 do not include any substances intentionally added or known to be contained at reportable levels in Glenair products, with the exception of substances indicated below.

Additionally, Glenair Inc has conducted careful analysis on substances due to sunset from the REACH Authorization list in September 2017. These substances are not intentionally added or known to be contained at levels that exceed REACH SVHC compliance limits.

A number of products Glenair sells can be specified with cadmium plating that contains more than 0.1% by weight cadmium. Affected plating codes include:

<i>Code</i>	<i>Finish</i>
1	Cadmium, Gold
19	Cadmium, Gold
24	Cadmium, Gold
A	Cadmium, No Chromate
ANF	Special Cadmium, Olive Drab, Dark
B	Cadmium, Olive Drab
B1	Cadmium, Olive Drab
B2	Cadmium, Olive Drab

<i>Code</i>	<i>Finish</i>
B3	Cadmium, No Chromate
BA	Cadmium, Olive Drab
BN	Cadmium, Olive Drab
BP	Cadmium, Olive Drab, Special
G3	Cadmium, Olive Drab
H	Special Anodize, Hardcoat on External Surfaces, Cadmium Plating on Inside Surfaces
J	Cadmium, Gold

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<i>Code</i>	<i>Finish</i>
JF	Cadmium, Gold
L	Cadmium, No Chromate
LF	Cadmium, Clear
LX	Special Cadmium, Clear
N	Cadmium, Olive Drab
NB	Cadmium, Olive Drab
NF	Cadmium, Olive Drab
NFC	Cadmium, Olive Drab, Special
NFP	Cadmium, Olive Drab with Polysulfide
NFT	Special Cadmium, Olive Drab with PTFE Fluoropolymer
NT	Cadmium, Olive Drab with PTFE Fluoropolymer
NX	Cadmium, Olive Drab
RNF	Special Cadmium, Olive Drab
SB	Cadmium, Olive Drab
SN	Cadmium, Olive Drab
T	Cadmium, No Chromate
U	Cadmium, Black

<i>Code</i>	<i>Finish</i>
UB	Cadmium, Black
UD	Special Cadmium, Black
UF	Cadmium, Black
X	Cadmium, Black
XL	Cadmium, No Chromate
XNF	Cadmium, Olive Drab
XW	Cadmium, Olive Drab
XX	Cadmium, Olive Drab, Selective
Y	Cadmium, Gold
Y1	Cadmium, Gold
Z14	Cadmium, Olive Drab
Z18	Cadmium, Clear
Z5	Special Cadmium, Gold
Z7	Cadmium, Olive Drab
Z8	Cadmium, Gold
ZB	Cadmium, Olive Drab
ZU	Cadmium, Black
ZUA	Cadmium, Black
ZW	Cadmium, Olive Drab
ZX	Cadmium, Black

Customer Safe Use information for these products is indicated below:

Company: Glenair, Inc.

Contact: technical@glenair.com

Substance Name: Cadmium

CAS Number: 7440-43-9

SVHC Decision Number: ED/69/2013

Risk Assessment

The use of cadmium as a plating finish has been much reduced over the years, but it still has an important role in safety critical applications.

As a plated surface on a component, cadmium does not represent a risk to health - cadmium is not easily absorbed through the skin, so handling cadmium plated items poses no risk to the user.

The main risk to health is cadmium dust or vapor, which can be generated by, for example, machining or welding cadmium plated items. The main route of entry into the body is via inhalation, followed by ingestion. If it corrodes, cadmium forms a white crystalline cadmium salt deposit on the surface of the plating, and this can represent a health risk if not handled properly. The deposit may enter the body through inhalation if it becomes airborne (e.g., when packaging around the part is opened) or ingestion (if a person eats or smokes without washing their hands after touching the deposit).

Cadmium dust, and the compounds formed when it corrodes are toxic by ingestion, toxic if inhaled, may cause cancer, and are suspected of being able to cause genetic defects, damage fertility and be harmful to the unborn child.

Handling Instructions

No precautions are required for handling cadmium plated items in the as-supplied condition.

It is recommended that cadmium plated articles should not be heated (e.g., welded) or machined by the end user.

If it is necessary to handle products with corroded cadmium plating, suitable gloves and respiratory protection should be worn and care taken to minimize the corrosion products becoming airborne.

Disposal Instructions

The article should be disposed of in accordance with all applicable governmental regulations relevant to the geographical location.

A few products Glenair sells can be specified with a finish treatment with more than 0.1% by weight of strontium chromate. Affected plating codes include:

<i>Code</i>	<i>Finish</i>
EAP	Special Chem Film with Epoxy Primer

Customer Safe Use information for these products is indicated below:

Company: Glenair, Inc.

Contact: technical@glenair.com

Substance Name: Strontium Chromate

CAS Number: 7789-06-2

SVHC Decision Number: ED/31/2011

Risk Assessment

As part of the cured primer on a component, the strontium chromate does not represent a risk to health, so handling the parts with the primer poses no risk to the user.

The main risk to health is strontium chromate dust or vapor, which can be generated by, for example, machining or welding items that have the chromated primer on them. The main route of entry into the body is via inhalation, followed by ingestion.

Strontium chromate dust may cause cancer, is suspected of causing genetic defects, and is suspected of damaging fertility or the unborn child. It is harmful if swallowed, fatal if inhaled,

may cause an allergic skin reaction, and may cause respiratory irritation. It is also very toxic to aquatic life with long lasting effects.

Handling Instructions

No precautions are required for handling parts that have the chromated primer in the as-supplied condition.

It is recommended that articles with the chromated primer should not be machined by the end user.

Disposal Instructions

The article should be disposed of in accordance with all applicable governmental regulations relevant to the geographical location.