

## Certificate of substance content and concentrations version. 4.0

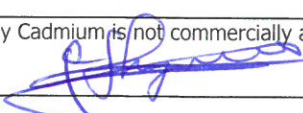
This certificate is required for the Recommended assessment level for chemical contents. This page should be printed to be signed and uploaded separately in PDF-format in connection with the application.

### Certificate of declaration of substance content

|                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For the products specified below, with their stated article numbers, the following is certified:<br><i>Choose whether to certify alternative A or B.</i> |                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>A</b> <input type="checkbox"/>                                                                                                                        | It is hereby certified that concentrations of the included substances <b>down to 0.01 weight%</b> have been reported, and that cadmium and mercury do not occur in the product.<br><br>or:<br>The substances included are reported in line with the instructions for the Declaration of Contents, BVB's reporting requirements 2016-1, and correspond to the reporting requirements for the <b>Recommended</b> level. |
| <b>B</b> <input checked="" type="checkbox"/>                                                                                                             | It is hereby certified that concentrations of the included substances <b>down to 0.1 weight%</b> have been reported, and that cadmium and mercury do not occur in the product.<br><br>or:<br>The substances included are reported in line with the instructions for the Declaration of Contents, BVB's reporting requirements 2016-1, and correspond to the reporting requirements for the <b>Accepted</b> level.     |
| For the products specified below, with their stated article numbers, the following is certified:<br><i>Choose whether to certify alternative C or D.</i> |                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>C</b> <input checked="" type="checkbox"/>                                                                                                             | It is hereby certified that the specified product/s do not contain specifically indicated substances and groups of substances in accordance with Table 4, Specifically indicated substances. These have not been added during production and have not been formed through reactions between the substances in the product.                                                                                            |
| <b>D</b> <input type="checkbox"/>                                                                                                                        | Unfortunately, we have to notify that the specified products contain specifically indicated substances in accordance with Table 4, Specifically indicated substances. Some of these substances have been added or been formed during reaction between the substances in the product, please see the Declaration of Contents.                                                                                          |

**Table 4, Specifically indicated substances**

| Substance group/Substance                                                                                        | Examples of properties                                           |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| 1. Arsenic and its compounds <sup>1</sup>                                                                        | Toxic, Environmentally hazardous                                 |
| 2. Brominated flame retardants                                                                                   | Potentially PBT/vPvB, PBT/vPvB                                   |
| 3. PFOA (perfluorooctanoic acid)                                                                                 | Persistent, bioaccumulative, probable reproductive toxicity      |
| 4. PFOS (perfluorooctanesulfonates)                                                                              | Potentially PBT/vPvB, PBT/vPvB                                   |
| 5. Organotin compounds                                                                                           | Potentially PBT/vPvB, PBT/vPvB, Toxic, Environmentally hazardous |
| 6. Biocidal product applied on products (surface treatments) to provide a disinfectant or anti-bacterial effect. | Toxic, Environmentally hazardous                                 |

|                                                                                                  |                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Product identification:</i><br>(designation and article number)                               | Galvanised fittings: No 001, No 003, No 002, No 11, No 10, No 12, No 20, No 25, No 29, No 50, No 51, No 52F, No 80, No 40, No 42, No 43, No 41, No 60, No 67,                     |
| <i>State reference (name and version/date) that contains the actual Declaration of Contents:</i> |                                                                                                                                                                                   |
| <i>Person responsible for making declaration:</i>                                                | Rik Ghysel                                                                                                                                                                        |
| <i>Signature:</i>                                                                                | Galvanise without any Cadmium is not commercially available. See attached 3.1 certificate<br> |
| <i>Place and date (year, month, day):</i>                                                        | 2016 October 14, 2016                                                                                                                                                             |

<sup>1</sup> Arsenic, or arsenic compounds, are not permitted to be added to the product. Contamination of used raw materials is not permitted to exceed 10 mg/kg. The concentration limit is set based on regulatory requirements for soil quality to ensure that accepted products do not raise background concentrations through their use or disposal (for example; sludge from sewage treatment works Swedish Ordinance 1998:944, Section 20). The same concentration limits are found in the Swedish Environmental Protection Agency's general guidelines for less sensitive land use (MKM).



# Declaration of contents, BVB's declaration requirements, 2016-

1

A complete declaration of contents in accordance with the instructions should be made for both products and chemical products. For products, minimum concentrations have to be reported as a weight% for the entire product. The contents can be provided in other documentation, if the reporting instructions are complied with, or alternatively supplemented so that they are in compliance. Reporting requirements for the Accepted level correspond to the requirements for "e-BVD2015".

For the Accepted and Recommended levels, classified substances are needed to be reported in the documentation if concentrations exceed limits (weight%) in accordance with *Table 5, Classified substances*. Those substances that are not included in Table 5 must be reported when concentrations of  $\geq 2\%$  occur.

Material and substance contains can be provided in intervals. Examples of accepted intervals are:  $\leq 1\%$ , 1-2.5%, 2.5-10%, 10-25%, 25-50%, 50-75%, 75-100%. In occasion of large intervals, state the reason for the variance and describe what materials/substances increase or decrease in proportion if the product, for example, comes in different sizes.

If classification is applied that is not covered by harmonized classification, this information requires to be reported in the comments column for that substance.

**Table 5, Classified substances**

| Hazard class                                                         | Reporting limit                                                                   |                |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------|
|                                                                      | Accepted                                                                          | Recommended    |
| Carcinogenic categories 1A and 1B (H350)                             | $\geq 0.1\%$                                                                      | $\geq 0.01\%$  |
| Carcinogenic category 2 (H351)                                       | $\geq 1\%$                                                                        | $\geq 0.1\%$   |
| Mutagenic categories 1A and 1B (H340)                                | $\geq 0.1\%$                                                                      | $\geq 0.01\%$  |
| Mutagenic category 2 (H341)                                          | $\geq 1\%$                                                                        | $\geq 0.1\%$   |
| Reproductive toxicity, categories 1A and 1B (H360)                   | $\geq 0.3\%$                                                                      | $\geq 0.03\%$  |
| Reproductive toxicity, category 2 (H361)                             | $\geq 2\%$                                                                        | $\geq 0.3\%$   |
| Reproductive toxicity effects on or through breastfeeding (H362)     | $\geq 0.3\%$                                                                      | $\geq 0.03\%$  |
| Endocrine disruptors <sup>1, 2</sup>                                 | $\geq 0.1\%$                                                                      | $\geq 0.01\%$  |
| PBT and/or vPvB <sup>3</sup>                                         | $\geq 0.1\%$                                                                      | $\geq 0.01\%$  |
| Skin sensitizers (H317)                                              | $\geq 1\%$                                                                        | $\geq 0.1\%$   |
| Respiratory sensitizers (H334)                                       | $\geq 0.2\%$                                                                      | $\geq 0.02\%$  |
| Hazardous to aquatic environments, chronic category 1 (H410)         | $\geq 2\%$                                                                        | $\geq 0.25\%$  |
| Ozone depleting substances (EUH 059 and H420)                        | $\geq 0.1\%$                                                                      | $\geq 0.01\%$  |
| Acute toxicity category 1 (H300, H310, H330, H301, H311 and/or H331) | $\geq 0.1\%$                                                                      | $\geq 0.01\%$  |
| Acute toxicity category 2 (H300, H310, H330, H301, H311 and/or H331) | $\geq 1\%$                                                                        | $\geq 0.1\%$   |
| Acute toxicity category 3 (H300, H310, H330, H301, H311 and/or H331) | $\geq 2\%$                                                                        | $\geq 1\%$     |
| Pure or compounds of cadmium (Cd)                                    | $\geq 0.01\%$                                                                     | $\geq 0.001\%$ |
| Pure or compounds of lead (Pb)                                       | $\geq 0.1\%$                                                                      | $\geq 0.01\%$  |
| Pure or compounds of mercury (Hg)                                    | Contamination $\geq 2.5$ mg/kg (ppm) of active additives must always be reported. |                |
| <sup>1</sup> Endocrine disruptors (EDS list)                         | $\geq 0.1\%$                                                                      | $\geq 0.01\%$  |
| <sup>2</sup> Endocrine disruptors (SIN list)                         |                                                                                   | $\geq 0.01\%$  |
| <sup>3</sup> PBT, vPvB (SIN list)                                    | $\geq 0.1\%$                                                                      | $\geq 0.01\%$  |
| Candidate List                                                       | $\geq 0.1\%^*$                                                                    | $\geq 0.01\%$  |
| Other classifications or unclassified substances and material        | $\geq 2\%$                                                                        | $\geq 2\%$     |

\*Substances on the Candidate List have to be reported at component level.

## Descriptions of material

Substances should be reported with their CAS- or EC number. Exemptions for certain material can be performed in accordance with the following instructions.

Metals should always be reported together with their alloy number. Alternatively, substances comprising more than 0.01% of the alloy has to be specified in the documentation.

Plastics and rubber materials should be reported together with their name so that it is clearly which monomers that are included, for example, acrylonitrile butadiene styrene (ABS), polyethylene (PE), etc. Additives that have not formed polymers should always be reported in accordance with Table 5 (for example pigments, plasticizers, stabilizers, etc.). BVB always requires that compounds used as plasticizers is declared for PVC plastics ( $\geq 2\%$ ).

Plastics/polymers with descriptions in line with the following list are accepted without specification of monomers.

- Polycarbonate (pertains to bisphenol A based polycarbonates)
- Polyester (monomers must be specified for halogenated polyesters)
- Polyurethane (monomers must be specified for halogenated polyurethanes)
- Fiberglass reinforced epoxy resin laminates FR4 (pertains to tetrabromobisphenol A based polymers)

Other materials with the following descriptions are accepted without clarification or detailed description of their components as the materials normally consist of:

- Glass
- Concrete

Examples of designations of plastics/polymers and other material descriptions that require further clarification are:

- Dispersion polymerization
- Copolymer
- Thermoplastic elastomers (TPE)
- Thermoplastics
- MS polymers
- Mineral fillers

References can be given for composite products to other products (subcomponents) that have been assessed in BVB's system and which have been provided with a BVB ID.

Complex products can be referred to another product (subcomponent), which are estimated in BVB's systems and provided with BVB ID.

