

## Byggvarubedömningen's guideline and information requirements for assessment of product, Version 2016-1.

These guidelines describe what information that Byggvarubedömningen requires for assessment of articles and chemical products. Information about the article or chemical product can be provided in this document, alternatively refer to another documentation in which the corresponding information is given.

### 1. Product information

#### Product

Product name:	VSH Sudopress Stainless steel			
Product description:	1439189	1440535	1440572	1441581
On application, please attach a product data sheet or similar documentation.	1439190	1440536	1440573	1441582
	1439191	1440537	1440574	1441583
	1439192	1440538	1440575	1441584
	1439193	1440539	1440576	1441585
	1439194	1440540	1440577	1441586
	1439195	1440541	1440578	1441587
	1439196	1440542	1440579	1441588
	1439197	1440543	1440580	1441589
	1439198	1440544	1440581	1441590
	1439199	1440545	1440582	1441591
	1439200	1440546	1440583	1441592
	1439201	1440547	1440584	1441593
	1439202	1440548	1440585	1441594
	1439203	1440549	1440586	1441595
	1439204	1440550	1440587	1441596
	1439205	1440551	1440588	1441597
	1439206	1440552	1440589	1441598
	1439207	1440553	1440590	1441599
	1440517	1440554	1440591	1441600
	1440518	1440555	1440592	1441601
	1440519	1440556	1440593	1441602
	1440520	1440557	1440594	1441603
	1440521	1440558	1441567	1441604
	1440522	1440559	1441568	1441605
	1440523	1440560	1441569	1441606
	1440524	1440561	1441570	1441607
	1440525	1440562	1441571	1441608
	1440526	1440563	1441572	1441609
	1440527	1440564	1441573	1441610
	1440528	1440565	1441574	1441611
	1440529	1440566	1441575	1441612
	1440530	1440567	1441576	1441613
	1440531	1440568	1441577	1441614
	1440532	1440569	1441578	1441615
	1440533	1440570	1441579	1441616
	1440534	1440571	1441580	1441617

	1441618	1443503	1445828
	1441619	1443504	1445829
	1441620	1443505	1445830
	1442430	1443506	1445831
	1442431	1443507	1445832
	1442432	1443508	1445833
	1442433	1444691	1445834
	1442434	1444692	1445835
	1442435	1444693	1445836
	1442436	1444694	1445837
	1442437	1444695	1445838
	1442438	1444696	1445839
	1442439	1444697	1445840
	1442440	1444698	1445841
	1442441	1444699	1445842
	1442442	1444700	1445843
	1442443	1444701	1445844
	1442444	1444702	1445845
	1442445	1444703	1445846
	1442446	1444704	1445847
	1442447	1444705	1445848
	1442448	1444706	1446008
	1442449	1444707	1446009
	1442450	1444708	1446010
	1442451	1444709	1446011
	1442452	1444710	1446012
	1442453	1444711	1446013
	1442454	1445808	1446014
	1442455	1445809	1446015
	1442456	1445810	1446016
	1442457	1445811	1446766
	1442458	1445812	1446767
	1442459	1445813	1446768
	1442460	1445814	1446769
	1442461	1445815	1446770
	1442462	1445816	
	1442463	1445817	
	1442464	1445818	
	1442465	1445819	
	1442466	1445820	
	1442467	1445821	
	1442468	1445822	
	1442469	1445823	
	1443499	1445824	
	1443500	1445825	
	1443501	1445826	
	1443502	1445827	



Type of product:	Press fittings in stainless steel	
Date (year, month, day) of preparation/revision:	<input type="checkbox"/> Chemical product	<input checked="" type="checkbox"/> Article
Date (year, month, day) of preparation/revision:	2019-06-20	

### Supplier/Manufacturer

Supplier:	Aalberts Integrated Piping Systems
Manufacturer if other than the supplier: <i>Voluntary information</i>	VSH Fittings B.V.
Contact person:	Caspar van Zoelen
Address:	Oude Amersfoortseweg 99, NL-1212 AA Hilversum
E-mail:	C.vanZoelen@vsh.nl
Phone number:	+31 6 20338048

### Supporting documentation

Has a declaration of performance, in line with the Swedish Construction Products Regulation, been prepared for the product?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
<i>If yes, attach the declaration of performance with the application</i>		
Is the article/product an electronic product and covered by the RoHS-directive (2011/65/EU)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
<i>If yes, attach an "EU Declaration of Conformity", or alternatively another certificate that attests that the product corresponds to the requirements according to the RoHS-directive (2011/65/EU), together with the application</i>		
If the article/product is an electronic product that is covered by an exemption according to RoHS-directive (2011/65/EU), specify which exemption and date (year, month, day) when the exemption expires if time-limited:	Exemptions according to RoHS:  Date:	

## 2. Declaration of contents:

Specify the total content of the article or the chemical product, **on delivery**, in Table 1, or alternatively attach other documentation that provides the corresponding information. For instructions, please refer to the "Declaration of contents, BVB's declaration requirements, 2016-1", which is found at the end of this document.

Table 1, Contents of included substances and material (declaration of content in accordance with requirements)

Included substances and material	EG No./CAS No. (alternatively alloy)	Weight% (of entire product)	When applicable, state for which subcomponent	Weight% (of substance in subcomponent)	Comments (state eventual application of non-harmonized classifications)
Stainless Steel	1.4404	98%			Ref. product Bend 28mm 6550104/1440527
EPDM		1%	<b>o-ring</b>		
PA6 15%FV Choc		1%	VisuControl ring (12/14/15/16/22/35/42mm)		Alternative; not in contact with medium
PP COPO G7		1%	VisuControl ring (28mm)		Alternative; not in contact with medium
PEHD		1%	VisuControl ring (54mm)		Alternative; not in contact with medium

Are all substances reported in percentages down to 0.01% in Table 1, alternatively follow the declaration requirements for the level Recommended as described in "Declaration of contents, BVB's declaration requirements, 2016-1, given at the end of this document? (Enables the assessment Recommended)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
If not, does the declaration fulfill the instructions for the level Accepted, as described in "Declaration of contents, BVB's declaration requirements, 2016-1", given at the end of this document?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
If any deviations from BVB's reporting requirements exist, specify these in the comments in Table 1, or alternatively here.	Other comments:	

  

Is the chemical composition different, for the product when applied (cured product) compared to the content at delivery? (applies to chemical products)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If yes, specify the content of the cured product in Table 2.		

Table 2, Contents for applied products (full content in accordance with declaration requirements)

Included substances and material	EG No./CAS No.	Weight% (of the applied product)	Comments (state any application of non-harmonized classifications)
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If any deviations from BVB's reporting requirements exist, specify these in the comments in Table 2, or alternatively here.	Other comments:
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Does the product or any of its subcomponents contain substances with particularly hazardous properties (Substances of Very High Concern, SVHC-substances), which are included in the Candidate List at a concentration above 0.1 weight%?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If yes, specify which substances in Table 1 together with the rest of the content of the product.		
State the date (year, month, day) for control the Candidate List.	Date: Jan 12 <sup>th</sup> , 2017	
The concentration is calculated at component level established on the principle "once a product, always a product". The Candidate List is available at: <a href="http://echa.europa.eu/sv/candidate-list-table">http://echa.europa.eu/sv/candidate-list-table</a> .		

### Nanomaterial

Does the product contain any nanomaterial that has been purposefully added to achieve a specific function?  <i>Information regarding whether nanomaterial has been added to achieve a specific function must be stated, but has no impact on the assessment.</i>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If yes, specify the material.	Material:	

### 3. Recycled raw material

Does the product contain recycled material?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
If yes, specify in Table 3.		

If the product consists of recycled materials specify the material and the percentages of the total weight of the product, in *Table 3, Recycled materials*.

*Table 3, Recycled material*

Material	Percentage (%) Recycled material of the total product's weight	Percentage (%) of the recycled material that has not reached the consumer level, such as production waste, etc. (pre-consumer)	Percentage (%) of the recycled material that has reached the consumer level (post-consumer)	Comments
Stainless steel	Max 20%			

### If wood raw material is included

Can the product be ordered with sustainability certificates for the wood raw material? <i>E.g.: FSC and PEFC</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Explain if the certificate does not cover all of the wood raw material:		

If yes, attach a certificate/assurance that the product can be ordered with a sustainability certificate together with the application.		
If no, state the country where the wood raw material was harvested.	Country of harvest:	
Is the wood species or origin in the CITES appendix for endangered species?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

#### 4. The production phase

Has an Environmental Product Declaration (EPD) been prepared?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Currently working towards ISO4001		
Has an active choice been made, regarding the electricity supplier, in order to promote electricity production from renewable energy sources?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
International contracts on Aalberts level		

#### 5. Distribution of the completed product

Describe the management of packaging for the distribution of the product  <i>State whether any system for taking back or recycling packaging or any other specific return system is used.</i>  <i>Specify the packaging material used and which system of producer responsibility for packaging the supplier is affiliated to.</i>  <i>Enter the proportion of recycled material, if any, included in the packaging.</i>	Description of the packaging:  Products delivered in bags and carton boxes. Boxes delivered on reusable pallets.	
Other information:		

#### 6. Construction and usage phase

Are there any special requirements such as storage conditions etc. for the product during storage?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
The recommended shelf life of fittings and O-rings is 7 years. Exposure to high temperature, moist and direct sunlight should be avoided as this may cause changes in properties. In order to achieve the best results, stock rotation (FIFO) is recommended, as well as storage according to the above-mentioned guidelines.			
Are there any special requirements for adjacent building products because of this product?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
If yes, describe:			
Are there any operating/care instructions for the product?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
<a href="http://core.aiflowcontrol.com/upload/files/sudopressa6handboek5007200-2017-10-en.pdf">http://core.aiflowcontrol.com/upload/files/sudopressa6handboek5007200-2017-10-en.pdf</a>			
Is the product energy labelled in accordance with the Energy Labelling Directive (2010/30/EU)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not relevant
If yes, state class (G to A, A+, A++, A+++):	Class:		



## 7. Waste management

Does the product require special measures to protect health and the environment in conjunction with demolition/dismantling?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If yes, describe:		
Is the product covered by the WEEE-directive 2012/19/EU (Swedish ordinance (2014:1075) on Producer Responsibility for electrical and electronic products when it becomes waste?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is it possible to re-use all or parts of the product? (can the product be reused within the product's expected lifetime)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If yes, describe:		
Is material recycling possible for all or parts of the product when it becomes waste?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Stainless steel can be recycled at all time during life time		
Is energy recycling possible for all or parts of the product when it becomes waste?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Does the supplier have any restrictions and recommendations for reuse, material- or energy recycling or disposal?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If yes, specify which:		
When the supplied product becomes waste, is it classified as hazardous waste?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If yes, specify the waste code: The Swedish waste ordinance (2011:927) <a href="https://www.notisum.se/rnp/sls/lag/20110927.htm">https://www.notisum.se/rnp/sls/lag/20110927.htm</a>	Waste code:	

## 8. Indoor environment

Has the product a critical moisture condition: <i>Information regarding whether critical moisture conditions leading to microbial growth apply for the material/product should be stated, but will not impact the assessment.</i>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If yes, specify which:		
Is the article (or chemical product) intended for indoor use?	<input checked="" type="checkbox"/> Yes (mainly)	<input type="checkbox"/> No
If yes, has emission data been produced for volatile organic compounds?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If yes, attach the report/certificate together with the application.		
If no, is there any motivation for why emission data for volatile organic compounds is not relevant for the product?	Motivation: Stainless steel couplings with rubber O-ring (with no emission of volatile compounds) in a closed loop.	

## 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: <i>Choose whether to certify alternative A or B.</i>	
<b>A</b> <input type="checkbox"/>	<p>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.</p> <p>or:</p> <p>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.</p>
<b>B</b> <input type="checkbox"/>	<p>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.</p> <p>or:</p> <p>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.</p>
For the products specified below, with their stated article numbers, the following is certified: <i>Choose whether to certify alternative C or D.</i>	
<b>C</b> <input checked="" type="checkbox"/>	<p>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.</p>
<b>D</b> <input type="checkbox"/>	<p>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.</p>



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

<b>Product identification:</b> (designation and article number)	VSH SudoPress Stainless Steel Ref: VSH SudoPress Stainless Steel Bend 90° dim 28 press x male; RSK 1440527 Item code 6550104
<b>State the reference document (name and version/date) that contains the actual Declaration of Contents:</b>	
<b>Person responsible for the declaration:</b>	Sanne Hørmensen
<b>Signature:</b>	
<b>Place and date (year, month, day):</b>	June 20 <sup>th</sup> , 2019

<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, concentrations have to be reported as a weight% for the entire product as minimum. 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 requirements specified above (for example pigments, plasticizers, stabilizers, etc.).

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)
- MS-polymer (refers to silane modified polyether)

**Note that if the plastic/polymer contains additives (such as pigments, plasticizers, stabilizers, etc.), they shall always be reported in accordance with the declaration requirements.**

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

- Glass (any content of lead needs to be reported for the assessment level recommended, e.g. relevant for recycled glass)
- Concrete (polymers included in the concrete are reported separately)

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

- Polymer dispersion
- Copolymer
- Thermoplastic elastomers (TPE)
- Thermoplastics
- MS polymers
- Mineral fillers
- Silanes: The type of polymer needs to be given, e.g. if it refers to a silane/silyl modified polyether or polyurethane.
- PVC: for contents above 2%, plasticizers always needs to be given with CAS no. Concentration of plasticizers below 2%, needs to be declared according to declaration requirements specified in Table 5. If no plasticizer is declared, the reason for that needs to be given.
- EPDM and SBR rubber: for levels above 2%, mineral/paraffin oil always needs to be given with CAS no. As an alternative, the maximal PAH content in the material can be given. For products intended to be used in contact with skin, the maximum content of PAH content shall be reported.
- The PAH content in the material needs to be reported for the assessment level recommended when asphalt/bitumen is present above 10% in the product.

For complex products, references to subcomponents which are assessed in BVB's systems with a specified BVB ID, can be used.