

BYGGVARUDEKLARATION BVD 3

enligt Kretsloppsrådets riktlinjer maj 2007

1 Grunddata

Produktidentifikation		Dokument-ID REACTa_Rektangulär_BVD3_SE	
Varunamn REACTa, REACTa MB (Modbus) Rektangulär	Artikel-nr/ID-begrepp Flödeskontroll	Varugrupp Variabelflödesspjäll	
<input checked="" type="checkbox"/> Ny deklARATION	Vid ändrad deklARATION		
<input type="checkbox"/> Ändrad deklARATION	Är varan förändrad?	Ändringen avser:	
	<input checked="" type="checkbox"/> Nej <input type="checkbox"/> Ja	Ändrad vara identifieras genom: Versionsbokstav (liten bokstav i slutet av varunamn).	
Upprättad/ändrad den 2015-11-27		Kontrollerad utan ändring den	
Övriga upplysningar: Produkten är bedömd för en referensstorlek 500x300 och gäller för alla storlekar av produkten. Produktens innehåll redovisas i vikt%. I katalogblad framgår vikt i kg eller gram för respektive storlek.			

2 Leverantörsuppgifter

Företagsnamn Swegon AB		Organisationsnr/DUNS-nr 556077-8465	
Adress Industrigatan 5		Kontaktperson Produktchef	
SE-275 35 Tomelilla		Telefon 0411-19800	
Webbplats: www.swegon.se		E-post tomelillasupport@swegon.se	
Har företaget miljöledningssystem?		<input checked="" type="checkbox"/> Ja	<input type="checkbox"/> Nej
Företaget är certifierat enligt	<input checked="" type="checkbox"/> ISO 9000 <input checked="" type="checkbox"/> ISO 14000	<input type="checkbox"/> Annat	Om "annat", specificera:
Övriga upplysningar:			

3 Varuinformation

Land för sluttillverkning Sverige	Om land ej kan anges, ange orsak		
Användningsområde Komfortventilation			
Finns säkerhetsdatablad för varan?	<input checked="" type="checkbox"/> Ej relevant	<input type="checkbox"/> Ja	<input type="checkbox"/> Nej
Ange enligt kemikalieinspektionens regelverk:	Klassificering	<input checked="" type="checkbox"/> Ej relevant	
Är varan registrerad i BASTA?	<input type="checkbox"/> Ja	<input checked="" type="checkbox"/> Nej	
Är varan miljömärkt?	<input checked="" type="checkbox"/> Kriterier saknas	<input type="checkbox"/> Ja	<input type="checkbox"/> Nej
Om "ja", specificera:			
Finns miljödeklARATION typ III för varan?	<input type="checkbox"/> Ja	<input checked="" type="checkbox"/> Nej	

Uppgifter i grönmärkerade fält är krav enligt Kretsloppsrådets riktlinjer.

Övriga upplysningar:

4 Innehåll

Varan består **vid leverans** av följande delar/komponenter och med angivna kemiska sammansättning:

Ingående material/ Komponenter	Ingående ämnen	Vikts- %	EG-nr/ CAS-nr (alt legering)	Klassifi- cering	Kommentar
Plåt	Varmförzinkad stålplåt	23,72%			
Fästelement	Aluminium/Stål	0,07%			
AL	Aluminium Sapa 6060	1,24%			
Packning	Polyeten	0,004%			
Gummi	EPDM*	1,16%			
Plast	PUR	0,02%			
Plast	POM	0,05%			
Spjäll	Varförzinkad plåt	67%			
	Fästelement Al, Mg	<0,7%			
	Fästelement stål	<0,7%			
	Mässing	<0,7%			
	Etenplast	<0,7%			
	Kondensisolering: cellgummi elastomer	<0,7%			Häftlim på vävbäs, självhäftande
EL	Spjälmotor	3,93%			Se materiallista "REACT motor_227VMGruner.pdf"
Övrigt	PVC	0,33%			

Övriga upplysningar: *Mineraloljan i tätningringen (EPDM-gummi) finns ej i slutprodukten som vi tillverkar.

Om varans kemiska sammansättning är annan efter inbyggnad än vid leverans, anges innehållet i den **färdiga inbyggda varan** här. Om innehållet är oförändrat lämnas inga uppgifter i nedanstående tabell.

Ingående material / Komponenter	Ingående ämnen	Vikts- %	EG-nr/ CAS-nr (alt legering)	Klassifi- cering	Kommentar

Uppgifter i grönmarkerade fält är krav enligt Kretsloppsrådets riktlinjer.

Övriga upplysningar:

5 Produktionsskedet

Resursutnyttjande och miljöpåverkan under produktion av varan redovisas på ett av följande sätt:

- 1) Inflöden (råvaror, insatsvaror, energi mm) för den registrerade varan till **tillverkningsenheten**, och utflöden (emissioner och restprodukter) därifrån, d v s från "grind till grind".
- 2) Samtliga inflöden och utflöden från utvinning av råvaror till färdig produkt d v s "vagga till grind".
- 3) Annan avgränsning. Ange vad:

Redovisningen avser enhet av varan	<input type="checkbox"/> Redovisad vara	<input type="checkbox"/> Varans varugrupp	<input type="checkbox"/> Varans tillverkningsenhet		
Ange råvaror och insatsvaror som använts vid tillverkning av varan	<input checked="" type="checkbox"/> Ej relevant				
Råvara/insatsvara	Mängd och enhet	Kommentar			
Ange återvunna material som använts vid tillverkning av varan	<input checked="" type="checkbox"/> Ej relevant				
Materials lag	Mängd och enhet	Kommentar			
Ange energi som använts vid tillverkning av varan eller dess delar	<input checked="" type="checkbox"/> Ej relevant				
Energislag	Mängd och enhet	Kommentar			
Ange transporter som använts vid tillverkning av varan eller dess delar	<input checked="" type="checkbox"/> Ej relevant				
Transportslag	Andel %	Kommentar			
Ange emissioner till luft, vatten eller mark från tillverkning av varan eller dess delar	<input checked="" type="checkbox"/> Ej relevant				
Emissionsslag	Mängd och enhet	Kommentar			
Ange restprodukter från tillverkning av varan eller dess delar	<input checked="" type="checkbox"/> Ej relevant				
Restprodukt	Avfallskod	Mängd	Andel som återvinns		Kommentar
			Material-återvinns %	Energi-återvinns %	
Finns datanoggrannheten för tillverkningsdata beskriven?	<input type="checkbox"/> Ja	<input type="checkbox"/> Nej	Om "ja", specificera:		
Övriga upplysningar:					

6 Distribution av färdig vara

Tillämpar leverantören retursystem för lastbärare av varan?	<input type="checkbox"/> Ej relevant	<input type="checkbox"/> Ja	<input checked="" type="checkbox"/> Nej
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Tillämpar leverantören system med flergångsemballage för varan?	<input type="checkbox"/> Ej relevant	<input checked="" type="checkbox"/> Ja	<input type="checkbox"/> Nej
Återtar leverantören emballage för varan?	<input type="checkbox"/> Ej relevant	<input type="checkbox"/> Ja	<input checked="" type="checkbox"/> Nej
Är leverantören ansluten till REPA?	<input type="checkbox"/> Ej relevant	<input checked="" type="checkbox"/> Ja	<input type="checkbox"/> Nej
Övriga upplysningar:			

7 Byggskedet

Ställer varan särskilda krav vid lagring?	<input type="checkbox"/> Ej relevant	<input type="checkbox"/> Ja	<input checked="" type="checkbox"/> Nej	Om "ja", specificera: *)
Ställer varan särskilda krav på omgivande byggvaror?	<input type="checkbox"/> Ej relevant	<input type="checkbox"/> Ja	<input checked="" type="checkbox"/> Nej	Om "ja", specificera:
Övriga upplysningar: *) Se monteringsanvisning eller skötselinstruktion				

8 Bruksskedet

Ställer varan krav på insatsvaror för drift och underhåll?	<input type="checkbox"/> Ja	<input checked="" type="checkbox"/> Nej	Om "ja", specificera:			
Ställer varan krav på energitillförsel för drift?	<input type="checkbox"/> Ja	<input checked="" type="checkbox"/> Nej	Om "ja", specificera:			
Uppskattad teknisk livslängd för varan anges enligt ett av alternativen a) eller b) nedan:						
a) Referenslivslängden uppskattas vara cirka	<input type="checkbox"/> 5 år	<input type="checkbox"/> 10 år	<input type="checkbox"/> 15 år	<input type="checkbox"/> 25 år	<input type="checkbox"/> >50 år	Kommentar
b) Referenslivslängden uppskattas vara i intervallet 15-25 år						
Övriga upplysningar: Referenslivslängd gäller under "normal drift" enligt vid leveranstillfället gällande produktblad.						

9 Rivning

Är varan förberedd för demontering (isärtagning)?	<input type="checkbox"/> Ej relevant	<input checked="" type="checkbox"/> Ja	<input type="checkbox"/> Nej	Om "ja", specificera: Ja modulbyggd
Kräver varan särskilda åtgärder för skydd av hälsa och miljö vid rivning/demontering?	<input type="checkbox"/> Ej relevant	<input type="checkbox"/> Ja	<input checked="" type="checkbox"/> Nej	Om "ja", specificera:
Övriga upplysningar:				

10 Avfallshantering

Är återanvändning möjlig för hela eller delar av varan?	<input type="checkbox"/> Ej relevant	<input checked="" type="checkbox"/> Ja	<input type="checkbox"/> Nej	Om "ja", specificera: Hela produkten kan återanvändas/fräschas upp
Är materialåtervinning möjlig för hela eller delar av varan?	<input type="checkbox"/> Ej relevant	<input checked="" type="checkbox"/> Ja	<input type="checkbox"/> Nej	Om "ja", specificera: Plåtskrot ca 90%, plast ca 2%
Är energiåtervinning möjlig för hela eller delar av varan?	<input type="checkbox"/> Ej relevant	<input type="checkbox"/> Ja	<input checked="" type="checkbox"/> Nej	Om "ja", specificera:

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Har leverantören restriktioner och rekommendationer för återanvändning, material- eller energiåtervinning eller	<input type="checkbox"/> Ej relevant	<input type="checkbox"/> Ja	<input checked="" type="checkbox"/> Nej	Om "ja", specificera:
Ange avfallskod för den levererade varan: 90% Järn och stål 17 04 05, 2% plaster 17 02 03, resterande är övrigt avfall 16 01 99				
Är den levererade varan klassad som farligt avfall?	<input type="checkbox"/> Ja	<input checked="" type="checkbox"/> Nej		
Om varans kemiska sammansättning är annan efter inbyggnad än vid leverans, och den färdiga inbyggda varan därmed får en annan avfallskod anges den här. Om den är oförändrad utelämnas nedanstående uppgifter.				
Ange avfallskod för den inbyggda varan				
Är den inbyggda varan klassad som farligt avfall?	<input type="checkbox"/> Ja	<input type="checkbox"/> Nej		
Övriga upplysningar:				

11 Innemiljö (För att lägga till ny grön rad, tabba dig fram från sista gröna radens kommentarsruta eller kopiera en rad med tomma textrutor och klistra in den. Se vidare i anvisningarna.)

Varan avger vid avsedd användning följande emissioner:			<input checked="" type="checkbox"/> Varan avger inga emissioner	
Typ av emission	Mängd [$\mu\text{g}/\text{m}^2\text{h}$] alt [$\text{mg}/\text{m}^3\text{h}$]		Mätmetod	Kommentar
	4 veckor	26 veckor		
Kan varan ge upphov till eget buller?			<input type="checkbox"/> Ej relevant	<input type="checkbox"/> Ja <input checked="" type="checkbox"/> Nej
Värde *)	Enhet		Mätmetod:	
Kan varan ge upphov till elektriska fält?			<input type="checkbox"/> Ej relevant	<input type="checkbox"/> Ja <input checked="" type="checkbox"/> Nej
Värde	Enhet		Mätmetod	
Kan varan ge upphov till magnetiska fält?			<input type="checkbox"/> Ej relevant	<input type="checkbox"/> Ja <input checked="" type="checkbox"/> Nej
Värde	Enhet		Mätmetod	
Övriga upplysningar: *) Vid felaktig dimensionering och installation kan buller uppstå. Produktens ljudalstring framgår av produktblad. Elektriska och magnetiska fält redovisas i produktblad och/eller CE-deklaration.				

Hänvisningar

Bilagor

Uppgifter i grönmarkerade fält är krav enligt Kretsloppsrådets riktlinjer.

MDS Report

Substances of assemblies and materials

1. Company and Product Name

1.1 Supplier Data

Name [ID]: **Gruner AG [13724]**
DUNS Number: **34-036-6314**
Street/Postal Code: **Buerglestr. 15-17**
Nat./ZipCode/City: **DE 78564 Wehingen**
Supplier Code: **-**
Contact Person: **Michael Spreter**
- Phone: **+049 7426/948 286**

- Fax No.: **-**
- E-Mail Address: **michael.spreter@gruner.
de**

1.2 Product Identification

Part/Item No.: **-**
Description: **227VM-024-10**
Report No.: **-**
Date of Report: **-**
Purchase Order No.: **-**
Bill of Delivery No.: **-**
Development Sample Report: **No**
IMDS ID / Version: **479261880 / 0.01**
Node ID: **479261880**

MDS Status (Change Date): **Edit mode (04/09/2014)**



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MDS Report

Substances of assemblies and materials

Materials which are subject to legal prohibitions must not be included!
Dangerous substances formed or released during use must also be declared
Please note: GADSL list for substances that require declaration

2. Characterization of the Component

Part/Item No.: -
Description: 227VM-024-10

Report No.: -
IMDS ID / Version: 479261880 / 0.01
Node ID: 479261880

Tree Level	Description Article Name Name Substance name	Part/Item No. Item / Mat. No. Material No. CAS No.	IMDS ID / Version	Quantity	Weight [g]	Portion [%]	Portion (from - to) [%]	Classif. GADSL SVHC	Parts Marking Recycode (Indust./Consumer) Application (ID)
1	227VM-024-10		479261880 / 0.01		478.83				
└2	GETR-227-10-001		(not available)	1	311.39				
└3	227-GRPL-106-C		(not available)	1	104.94				
└4	227-GRPL-006-A		(not available)	1	71.278				Not Applicable
└5	PA66-GF35FR(52)		14247982 / 4		71.278			5.1.a	No
└6	PA66	-				58	55.1 - 80.9		

Hewlett-Packard GmbH



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└6	GF-Fibre	-				35	33.95 - 36.05		
└6	Phosphorus	7723-14-0				3	2.97 - 3.03		
└6	Further Additives, not to declare	system				4			
└4	227-STIF-001-B	32363	(not available)	2	0.49				
└5	11SMnPb30	1.0718	12630 / 2		0.49			1.1.1	No
└6	Carbon	7440-44-0				0.07	0 - 0.14		
└6	Manganese	7439-96-5				1.1	0.9 - 1.3		
└6	Phosphorus	7723-14-0				0.055	0 - 0.11		
└6	Lead	7439-92-1				0.275	0.2 - 0.35	D / P	Alloying element in steel for machining purposes or galvanised steel [1]
└6	Sulphur	7704-34-9				0.3	0.27 - 0.33		
└6	Silicon	7440-21-3				0.025	0 - 0.05		
└6	Iron	7439-89-6				98.175			
└4	227-STIF-002-B	32366	(not available)	2	1.123				
└5	11SMnPb30	1.0718	12630 / 2		1.123			1.1.1	No
└6	Carbon	7440-44-0				0.07	0 - 0.14		
└6	Manganese	7439-96-5				1.1	0.9 - 1.3		
└6	Phosphorus	7723-14-0				0.055	0 - 0.11		



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Tree Level	Description Article Name Substance name	Part Item No. Item - Mat. No. Material No. CAS No.	IMDS ID / Version	Quantity	Weight (g)	Portion (%)	Portion (from - to) (%)	Classif. GADSL SVHC	Parts Marking Recyclate (Indust./Consumer) Application ID
6	Lead	7439-92-1				0.275	0.2 - 0.35	D / P	Alloying element in steel for machining purposes or galvanised steel [1]
6	Sulphur	7704-34-9				0.3	0.27 - 0.33		
6	Silicon	7440-21-3				0.025	0 - 0.05		
6	Iron	7439-89-6				98.175			
4	227-STIF-004-A	27448	(not available)	1	3.1				
5	60SPb22	1.0758	12645 / 3		3.1			1.1.1	No
6	Carbon	7440-44-0				0.61	0.57 - 0.65		
6	Manganese	7439-98-6				0.9	0.7 - 1.1		
6	Phosphorus	7723-14-0				0.03	0 - 0.06		
6	Lead	7439-92-1				0.25	0.15 - 0.35	D / P	Alloying element in steel for machining purposes or galvanised steel [1]
6	Sulphur	7704-34-9				0.215	0.18 - 0.25		
6	Silicon	7440-21-3				0.2	0.1 - 0.3		
6	Iron	7439-89-6				97.795			
4	200-MOTR-101-C		(not available)	1	27.83				
5	200-MOTR-005-A	33781	(not available)	1	26.3				not yet answered
6	PCB-Standard		137422068 / 6		26.3				
7	PCB-ceramics without lead, Standard		(not available)			1.369296	0.5 - 2	7.2	No



Tree Level	Description Article Name Name Substance name	Part/Item No. Item / Mat. No. Material No. CAS No.	IMDS ID / Version	Quantity	Weight (g)	Portion (%)	Portion (from - to) (%)	Classif. GADSL SVHC	Parts Marking Recyclate (Indust./Consumer) Application (ID)
-8	Misc., not to declare	system				1.25	0.5 - 2		
-8	Ceramic without declarable substances	-				87.1			
-8	Barium	7440-39-3				8.1	7.2 - 8	D	
-8	Nickel	7440-02-0				3.55	2.4 - 4.7	D	Not applicable [34]
-7	PCB-metals, Standard		(not available)			28.145729	28 - 30	3.2	No
-8	Silver	7440-22-4				0.05	0 - 0.1		
-8	Copper	7440-50-8				95.35		D	
-8	Iron	7439-89-6				3	2 - 4		
-8	Manganese	7439-96-5				0.025	0 - 0.05		
-8	Nickel	7440-02-0				0.075	0.05 - 0.1	D	Not applicable [34]
-8	Phosphorus	7723-14-0				0.75	0.5 - 1		
-8	Misc., not to declare	system				0.75	0.5 - 1		
-7	PCB-special metals, Standard		(not available)			2.072864	1.5 - 2.5	4.2	No
-8	Silver	7440-22-4				3	2 - 4		
-8	Aluminium (metal)	7429-90-5				40.095			
-8	Gold	7440-57-5				1	0.5 - 1.5		
-8	Boron	7440-42-8				0.15	0.1 - 0.2		
-8	Bismuth	7440-69-9				0.05	0 - 0.1		
-8	Cobalt	7440-48-4				0.15	0.1 - 0.2	D	



Tree Level	Description Article Name Name Substance name	Part/Item No. Item / Mat. No. Material No. CAS No.	IMDS ID / Version	Quantity	Weight [g]	Portion [%]	Portion (from - to) [%]	Classif. GADSL SVHC	Parts Marking Recyclate (Indust./Consumer) Application (ID)
8	Chromium	7440-47-3				0.7	0.4 - 1		
8	Copper	7440-50-8				3.5	2 - 5	D	
8	Iron	7439-89-6				5.5	4 - 7		
8	Manganese	7439-96-6				0.25	0 - 0.5		
8	Nickel	7440-02-0				12.5	10 - 15	D	Other application (Surface not routinely touched or nickel release rate < 0.5µg/cm2/week [33])
8	Niobium	7440-03-1				0.05	0 - 0.1		
8	Phosphorus	7723-14-0				0.2	0.1 - 0.3		
8	Lead	7439-92-1				0.005	0 - 0.01	D / P	Concentration within acceptable GADSL limits [44]
8	Palladium	7440-05-3				0.2	0.1 - 0.3		
8	Antimony	7440-36-0				0.1	0 - 0.2		
8	Tin	7440-31-5				17.5	15 - 20		
8	Tantalum	7440-25-7				14	12 - 16		
8	Zinc (metal)	7440-66-6				0.3	0.1 - 0.5		
8	Misc., not to declare	system				0.75	0.5 - 1		
7	PCB-epoxy for PCB laminate, Standard		(not available)			29.01005	25 - 32	5.4.3	No
8	Epoxy resin	-				86.7			
8	Acrylates	-				0.25	0 - 0.5		



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-8	Barium sulphate	7727-43-7				0.1	0 - 0.2		
-8	TBBA	79-94-7				7.5	5 - 10	D	
-8	Titanium-dioxide	13463-67-7				0.5	0 - 1		
-8	Talc	14807-96-6				0.2	0 - 0.4		
-8	Misc., not to declare	system				2	1 - 3		
-8	Pigment portion, not to declare	system				1.75	0.5 - 3		
-8	Silica, vitreous	60676-86-0				1	0 - 2		
-7	PCB-epoxy for components, Standard		(not available)			6.718593	5 - 8	5.4.3	No
-8	Bismuth	7440-69-9				0.05	0 - 0.1		
-8	Biphenyl	92-52-4				0.15	0 - 0.3		
-8	Carbon black	1333-86-4				0.25	0.2 - 0.3		
-8	Epoxy resin	-				14.5	13 - 16		
-8	Brominated Epoxy	68926-70-1				0.1	0 - 0.2		
-8	Formaldehyde, polymer with (chloromethyl)oxirane and 2-methylphenol	29690-82-2				0.55	0 - 1.1		
-8	Glass spheres	-				0.55	0.4 - 0.7		
-8	Phenol, polymer with formaldehyde	9003-35-4				2.55	1.1 - 4		
-8	Antimonytrioxide	1309-64-4				0.75	0.3 - 1.2	D	



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-8	Silica, vitreous	60676-86-0				79.2			
-8	Misc., not to declare	system				0.25	0 - 0.5		
-8	TBBA	79-94-7				1.1	0.2 - 2	D	
-7	PCB-Organics, Standard		(not available)			1.072864	0.5 - 1.5	9.8	
-8	1,3-Butadiene, 2-methyl-, polymer with 2-methyl-1-propene	9010-85-9				43.95			
-8	gamma-Butyrolactone	96-48-0				18.5	15 - 22		
-8	Carbon	7440-44-0				0.1	0 - 0.2		
-8	Ethane-1,2-diol	107-21-1				4	3 - 5		
-8	LCP	-				3.5	2 - 5		
-8	Cellulose	9004-34-6				8.5	7 - 10		
-8	PAR	-				2	1 - 3		
-8	Perfluoropolyether	60164-51-4				0.2	0 - 0.4		
-8	Polyimide Resin	25036-53-7				1.25	0.5 - 2		
-8	Polyesterimide resin	-				0.1	0 - 0.2		
-8	Polyphenylene sulfide	9016-75-5				1.25	1 - 1.5		
-8	Polypropylene	106585-43-9				1.25	1 - 1.5		
-8	Polyamid 6.6	32131-17-2				11	10 - 12		



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8	Propanoyl fluoride, 2,3,3,3-tetrafluoro-2-(1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propoxy)-, polymer with trifluoro(trifluoromethyl)oxirane, reaction products with 3-(ethenyldimethylsilyl)-N-methylbenzenamine	185701-88-6				0.15	0 - 0.3		
8	Polydimethylsiloxane rubber	63394-02-5				1.5	1 - 2		
8	UP	-				1.25	1 - 1.5		
8	Misc., not to declare	system				1.5	1 - 2		
7	PCB-Inorganics/glass, Standard		(not available)			30.291457	28 - 32	7.2	No
8	GF-Fibre	-				99.3			
8	Silicon	7440-21-3				0.45	0.3 - 0.6		
8	Misc., not to declare	system				0.25	0 - 0.5		
7	PCB-ceramics with lead (10a), Standard		(not available)			0.329146	0.1 - 0.5	7.2	No
8	Misc., not to declare	system				1.25	0.5 - 2		
8	Ceramic without declarable substances	-				47.35			



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└8	Lead	7439-92-1				1.85	0.4 - 3.3	D / P	10(a) - Electrical and electronic components which contain lead in a glass or ceramic. In a glass or ceramic matrix compound, in a glass-ceramic material, or in a glass-ceramic matrix compound. This exemption does not cover the use of lead in: - glass in bulbs and glaze of spark plugs, - dielectric ceramic materials of components listed under 10(b), 10(c) and 10(d). [63]
└8	Barium	7440-39-3				48.1		D	
└8	Neodymium	7440-00-8				1.25	0.5 - 2		
└8	Ruthenium	7440-18-8				0.2	0 - 0.4		
└5	200-RTZM-001-A		(not available)	1	1.43				not yet answered
└6	CuZn39Pb3	CW814N	8614759 / 5		1.3			3.2	No
└7	Copper	7440-50-8				58	57 - 59	D	
└7	Aluminium (metal)	7429-90-5				0.025	0 - 0.05		
└7	Iron	7439-89-6				0.15	0 - 0.3		
└7	Nickel	7440-02-0				0.15	0 - 0.3	D	Not applicable [34]
└7	Lead	7439-92-1				3	2.5 - 3.5	D / P	Alloying element in copper [3]
└7	Tin	7440-31-5				0.15	0 - 0.3		



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└7	Misc., not to declare	system				0.1	0 - 0.2		
└7	Zinc (metal)	7440-66-6				38.425			
└6	POM		73958079 / 1		0.13			5.1.b	No
└7	Polyoxymethylene diacetate	25231-38-3				99.6			
└7	Further Additives, not to declare	system				0.45			
└7	Poly(oxymethylene)	9002-81-7				0.05			
└3	227-WEAB-104-A		(not available)	1	55.023				
└4	227-WEAB-004-A		(not available)	1	26.423				
└5	ZP0410	ZP0410	9381849 / 1		26.423			3.3	No
└6	Aluminium (metal)	7429-90-5				4	3.7 - 4.3		
└6	Copper	7440-50-8				0.95	0.7 - 1.2	D	
└6	Magnesium (metal)	7439-95-4				0.0425	0.025 - 0.06		
└6	Lead	7439-92-1				0.0025	0 - 0.005	D / P	Concentration within acceptable GADSL limits [44]
└6	Cadmium	7440-43-9				0.0025	0 - 0.005	D / P / SVHC	Concentration within acceptable GADSL limits [47]
└6	Tin	7440-31-5				0.001	0 - 0.002		
└6	Iron	7439-89-6				0.025	0 - 0.05		
└6	Nickel	7440-02-0				0.01	0 - 0.02	D	Not applicable [34]
└6	Silicon	7440-21-3				0.015	0 - 0.03		
└6	Zinc (metal)	7440-66-6				94.9515			

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└4	340-RDZH-005-A		(not available)	1	28.8				
└5	Sint-D32		13045541 / 2		28.6			1.1	No
└6	Iron	7439-89-6				93.1			
└6	Copper	7440-50-8				1.5	0 - 3	D	
└6	Carbon	7440-44-0				0.8	0.3 - 0.9		
└8	Misc., not to declare	system				1	0 - 2		
└6	Nickel	7440-02-0				2.5	0 - 5	D	Other application (Surface not routinely touched or nickel release rate < 0.5µg/cm2/week) [33]
└6	Molybdenum	7439-98-7				1.3	0.6 - 2		
└3	200-TRIB-001-A		(not available)	1	0.55				not yet answered
└4	POM		73958079 / 1		0.55			5.1.b	No
└5	Polyoxymethylene diacetate	25231-38-3				99.5			
└5	Further Additives, not to declare	system				0.45			
└5	Poly(oxymethylene)	9002-81-7				0.05			
└3	227-BCHD-001-C		(not available)	1	0.08				
└4	CW614N / CuZn39Pb3		57231318 / 1		0.08			3.2	No
└5	Copper	7440-50-8				58	57 - 59	D	
└5	Lead	7439-92-1				3	2.5 - 3.5	D / P	Alloying element in copper [3]
└5	Iron	7439-89-6				0.15	0 - 0.3		



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└5	Nickel	7440-02-0				0.15	0 - 0.3	D	Not applicable [34]
└5	Tin	7440-31-5				0.15	0 - 0.3		
└5	Zinc (metal)	7440-66-6				38.55			
└3	200-TRIB-102-B		(not available)	1	4.78				
└4	200-RTZL-002-B		(not available)	1	2.39				
└5	1.0718	1.0718	27717738 / 1		2.39			1.1	No
└6	Phenol, pentachloro-, potassium salt	7778-73-6				0.071		P	
└6	Lead	7439-92-1				0.25		D / P	Alloying element in steel for machining purposes or galvanised steel [1]
└6	Misc., not to declare	system				98.084			
└6	Confidential Substances	*****				1.595			
└4	200-RDZH-002-B		(not available)	1	2.4				not yet answered
└5	Minlon	FE6228 BK192Y	45682023 / 1		2.4			5.5.1	No
└6	Polyamid6	25038-54-4				65.151515	50 - 70		
└6	Carbon black	1333-86-4				1.515152	0 - 2		
└6	epsilon-Caprolactam	105-60-2				0.757576	0 - 1		
└6	Misc., not to declare	system				32.575758	25 - 35		
└3	228-SCHE-002-A	23552	(not available)	1	0.014				
└4	X10CrNi18-8	1.4310	36413360 / 4		0.014			1.1.2	No



Tree Level	Description Article Name Name Substance name	Part/Item No. Item / Mat. No. Material No. CAS No.	IMDS ID / Version	Quantity	Weight (g)	Partien (%)	Partien (from - to) (%)	% Classif GADSL SVHC	Parts Marking Recyclate (Indust./Consumer) Application (ID)
-5	Carbon	7440-44-0				0.1	0.05 - 0.15		
-5	Chromium	7440-47-3				17.5	16 - 19		
-5	Manganese	7439-96-5				1	0 - 2		
-5	Nitrogen	7727-37-9				0.055	0 - 0.11		
-5	Nickel	7440-02-0				7.75	6 - 9.5	D	Other application (Surface not routinely touched or nickel release rate < 0.5µg/cm2/week) [33]
-5	Phosphorus	7723-14-0				0.0225	0 - 0.045		
-5	Sulphur	7704-34-9				0.0075	0 - 0.015		
-5	Silicon	7440-21-3				1	0 - 2		
-5	Iron	7439-89-6				71.665			
-5	Copper	7440-50-8				0.5	0 - 1	D	
-5	Molybdenum	7439-98-7				0.4	0 - 0.8		
-3	200-TRIB-001-B		(not available)	1	0.44				not yet answered
-4	POM		73958079 / 1		0.44			5.1.b	No
-5	Polyoxymethylene diacetate	25231-38-3				99.5			
-5	Further Additives, not to declare	system				0.45			
-5	Poly(oxymethylene)	9002-81-7				0.05			
-3	227-FDDR-002-A	18081	(not available)	1	0.05				
-4	X10CrNi18-8	1.4310	35413360 / 4		0.05			1.1.2	No



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└5	Carbon	7440-44-0				0.1	0.06 - 0.16		
└5	Chromium	7440-47-3				17.6	16 - 19		
└5	Manganese	7439-96-6				1	0 - 2		
└5	Nitrogen	7727-37-9				0.055	0 - 0.11		
└5	Nickel	7440-02-0				7.75	6 - 9.5	D	Other application (Surface not routinely touched or nickel release rate < 0.5µg/cm2/week) [33]
└5	Phosphorus	7723-14-0				0.0225	0 - 0.045		
└5	Sulphur	7704-34-9				0.0075	0 - 0.015		
└5	Silicon	7440-21-3				1	0 - 2		
└5	Iron	7439-89-6				71.665			
└5	Copper	7440-50-8				0.6	0 - 1	D	
└5	Molybdenum	7439-98-7				0.4	0 - 0.8		
└3	200-TRIB-004-A	33832	(not available)	1	26.316				
└4	Sint-D32		13045641 / 2		26.316			1.1	No
└5	Iron	7439-89-6				93.1			
└5	Copper	7440-50-8				1.6	0 - 3	D	
└5	Carbon	7440-44-0				0.6	0.3 - 0.9		
└5	Misc., not to declare	system				1	0 - 2		



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5	Nickel	7440-02-0				2.5	0 - 5	D	Other application (Surface not routinely touched or nickel release rate < 0.5µg/cm2/week) [33]
5	Molybdenum	7439-98-7				1.3	0.6 - 2		
3	Zahnrad 3	36646	432995614 / 1	1	17.83				
4	Sint-D32		13045541 / 2		17.89			1.1	No
5	Iron	7439-89-6				93.1			
5	Copper	7440-50-8				1.5	0 - 3	D	
5	Carbon	7440-44-0				0.6	0.3 - 0.9		
5	Misc., not to declare	system				1	0 - 2		
5	Nickel	7440-02-0				2.5	0 - 5	D	Other application (Surface not routinely touched or nickel release rate < 0.5µg/cm2/week) [33]
5	Molybdenum	7439-98-7				1.3	0.6 - 2		
3	227-BCHE-003-A	24253	(not available)	1	2.22				not yet answered
4	PA66+PTFE		28505646 / 1		2.22			5.1.a	No
5	PA66+PTFE Colour Masterbatch		28505212 / 1			5		5.1.b	
5	Further Additives, not to declare	system				1			
6	Pigment portion, not to declare	system				80			
6	PA66+PTFE	-				19			



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└5	PA66+PTFE		28505414 / 1			95		5.1.a	
└6	Further Additives, not to declare	system				5			
└6	GF-Fibre	-				30			
└6	PA66+PTFE	-				65			
└3	227-PLTN-006-A		(not available)	1	98.36				
└4	DC01	1.0330	12375 / 2		98.36			1.1.1	No
└5	Carbon	7440-44-0				0.06	0 - 0.12		
└5	Manganese	7439-96-5				0.3	0 - 0.6		
└5	Phosphorus	7723-14-0				0.0225	0 - 0.045		
└5	Sulphur	7704-34-9				0.0225	0 - 0.045		
└5	Iron	7439-89-6				98.595			
└3	PP 3,0x10 TORX	21946	(not available)	4	0.7				
└4	X19CrMoNbVN11-1	1.4913	13583 / 2		0.7			1.1.2	No
└5	Carbon	7440-44-0				0.2	0.17 - 0.23		
└5	Chromium	7440-47-3				10.75	10 - 11.5		
└5	Manganese	7439-96-5				0.65	0.4 - 0.9		
└5	Molybdenum	7439-98-7				0.65	0.5 - 0.9		
└5	Nitrogen	7727-37-9				0.075	0.05 - 0.1		
└5	Niobium	7440-03-1				0.4	0.25 - 0.55		



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└5	Nickel	7440-02-0				0.4	0.2 - 0.6	D	Not applicable [34]
└5	Phosphorus	7723-14-0				0.0125	0 - 0.025		
└5	Sulphur	7704-34-9				0.0075	0 - 0.015		
└5	Silicon	7440-21-3				0.25	0 - 0.5		
└5	Vanadium	7440-62-2				0.2	0.1 - 0.3		
└5	Iron	7439-89-6				86.39425			
└5	Boron	7440-42-8				0.00075	0 - 0.0015		
└5	Aluminium (metal)	7429-90-5				0.01	0 - 0.02		
└2	227-HALT-001-A	19730	(not available)	1	0.83				not yet answered
└3	PA66-GF35FR(52)		14247982 / 4		0.83			5.1.a	No
└4	PA66	-				58	55.1 - 60.9		
└4	GF-Fibre	-				35	33.95 - 36.05		
└4	Phosphorus	7723-14-0				3	2.97 - 3.03		
└4	Further Additives, not to declare	system				4			
└2	227-LEPL-124-D		(not available)	1	23.8				not yet answered
└3	PCB-Standard		137422066 / 6		23.8				
└4	PCB-ceramics without lead, Standard		(not available)			1.359296	0.5 - 2	7.2	No
└5	Misc., not to declare	system				1.25	0.5 - 2		
└5	Ceramic without declarable substances	-				87.1			



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└5	Barium	7440-39-3				8.1	7.2 - 9	D	
└5	Nickel	7440-02-0				3.55	2.4 - 4.7	D	Not applicable [34]
└4	PCB-metals, Standard		(not available)			29.145729	28 - 30	3.2	No
└5	Silver	7440-22-4				0.05	0 - 0.1		
└5	Copper	7440-50-8				95.35		D	
└5	Iron	7439-89-6				3	2 - 4		
└5	Manganese	7439-96-5				0.025	0 - 0.05		
└5	Nickel	7440-02-0				0.075	0.05 - 0.1	D	Not applicable [34]
└5	Phosphorus	7723-14-0				0.75	0.5 - 1		
└5	Misc., not to declare	system				0.75	0.5 - 1		
└4	PCB-special metals, Standard		(not available)			2.072864	1.5 - 2.5	4.2	No
└5	Silver	7440-22-4				3	2 - 4		
└5	Aluminium (metal)	7429-90-5				40.095			
└5	Gold	7440-57-5				1	0.5 - 1.5		
└5	Boron	7440-42-8				0.15	0.1 - 0.2		
└5	Bismuth	7440-69-9				0.05	0 - 0.1		
└5	Cobalt	7440-48-4				0.15	0.1 - 0.2	D	
└5	Chromium	7440-47-3				0.7	0.4 - 1		
└5	Copper	7440-50-8				3.5	2 - 5	D	



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└5	Iron	7439-89-8				5.5	4 - 7		
└5	Manganese	7439-96-5				0.25	0 - 0.5		
└5	Nickel	7440-02-0				12.5	10 - 15	D	Other application (Surface not routinely touched or nickel release rate < 0.5µg/cm ² /week) [33]
└5	Niobium	7440-03-1				0.05	0 - 0.1		
└5	Phosphorus	7723-14-0				0.2	0.1 - 0.3		
└5	Lead	7439-92-1				0.005	0 - 0.01	D / P	Concentration within acceptable GADSL limits [44]
└5	Palladium	7440-05-3				0.2	0.1 - 0.3		
└5	Antimony	7440-36-0				0.1	0 - 0.2		
└5	Tin	7440-31-5				17.5	15 - 20		
└5	Tantalum	7440-25-7				14	12 - 16		
└5	Zinc (metal)	7440-66-6				0.3	0.1 - 0.5		
└5	Misc., not to declare	system				0.75	0.5 - 1		
└4	PCB-epoxy for PCB laminate, Standard		(not available)			29.01005	25 - 32	5.4.3	No
└5	Epoxy resin	-				86.7			
└5	Acrylates	-				0.25	0 - 0.5		
└5	Barium sulphate	7727-43-7				0.1	0 - 0.2		
└5	TBBA	79-94-7				7.5	5 - 10	D	



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└5	Titanium-dioxide	13463-67-7				0.5	0 - 1		
└5	Talc	14807-96-6				0.2	0 - 0.4		
└5	Misc., not to declare	system				2	1 - 3		
└5	Pigment portion, not to declare	system				1.75	0.5 - 3		
└5	Silica, vitreous	60676-86-0				1	0 - 2		
└4	PCB-epoxy for components, Standard		(not available)			6.718593	5 - 8	5.4.3	No
└5	Bismuth	7440-69-9				0.05	0 - 0.1		
└5	Biphenyl	92-52-4				0.15	0 - 0.3		
└5	Carbon black	1333-86-4				0.25	0.2 - 0.3		
└5	Epoxy resin	-				14.5	13 - 16		
└5	Brominated Epoxy	68928-70-1				0.1	0 - 0.2		
└5	Formaldehyde, polymer with (chloromethyl)oxirane and 2-methylphenol	29690-82-2				0.56	0 - 1.1		
└5	Glass spheres	-				0.55	0.4 - 0.7		
└5	Phenol, polymer with formaldehyde	9003-35-4				2.55	1.1 - 4		
└5	Antimonytrioxide	1309-64-4				0.75	0.3 - 1.2	D	
└5	Silica, vitreous	60676-86-0				79.2			
└5	Misc., not to declare	system				0.25	0 - 0.5		



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└5	TBBA	79-94-7				1.1	0.2 - 2	D	
└4	PCB-Organics, Standard		(not available)			1,072864	0.5 - 1.5	9.8	
└5	1,3-Butadiene, 2-methyl-, polymer with 2-methyl-1-propene	9010-85-9				43.95			
└5	gamma-Butyrolactone	98-48-0				18.5	15 - 22		
└5	Carbon	7440-44-0				0.1	0 - 0.2		
└5	Ethane-1,2-diol	107-21-1				4	3 - 5		
└5	LCP	-				3.5	2 - 5		
└5	Cellulose	9004-34-6				8.5	7 - 10		
└5	PAR	-				2	1 - 3		
└5	Perfluoropolyether	60164-51-4				0.2	0 - 0.4		
└5	Polyimide Resin	25036-53-7				1.25	0.5 - 2		
└5	Polyesterimide resin	-				0.1	0 - 0.2		
└5	Polyphenylene sulfide	9016-75-5				1.25	1 - 1.5		
└5	Polypropylene	106565-43-9				1.25	1 - 1.5		
└5	Polyamid 6,6	32131-17-2				11	10 - 12		



Free Level	Description Article Name Name Substance name	Part/Item No. Item / Mat. No. Material No. CAS No.	IMDS ID / Version	Quantity	Weight (g)	Portion (%)	Portion (from - to) (%)	Classif. GADSL SVHC	Parts Marking Recycle (Indust./Consumer) Application (ID)
-5	Propanoyl fluoride, 2,3,3,3-tetrafluoro-2-(1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propoxy)-, polymer with trifluoro(trifluoromethyl)oxirane, reaction products with 3-(ethenyldimethylsilyl)-N-methylbenzenamine	185701-88-6				0.15	0 - 0.3		
-5	Polydimethylsiloxane rubber	63394-02-5				1.5	1 - 2		
-5	UP	-				1.25	1 - 1.5		
-5	Misc., not to declare	system				1.5	1 - 2		
-4	PCB-Inorganics/glass, Standard		(not available)			30.291467	28 - 32	7.2	No
-5	GF-Fibre	-				99.3			
-5	Silicon	7440-21-3				0.45	0.3 - 0.6		
-5	Misc., not to declare	system				0.25	0 - 0.5		
-4	PCB-ceramics with lead (10a), Standard		(not available)			0.329146	0.1 - 0.5	7.2	No
-5	Misc., not to declare	system				1.25	0.5 - 2		
-5	Ceramic without declarable substances	-				47.35			



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└5	Lead	7439-92-1				1.85	0.4 - 3.3	D / P	10(a) - Electrical and electronic components which contain lead in a glass or ceramic, in a glass or ceramic matrix compound, in a glass-ceramic material, or in a glass-ceramic matrix compound. This exemption does not cover the use of lead in: - glass in bulbs and glaze of spark plugs, - dielectric ceramic materials of components listed under 10(b), 10(c) and 10(d), [63]
└5	Barium	7440-39-3				48,1		D	
└5	Neodymium	7440-00-8				1.25	0.5 - 2		
└5	Ruthenium	7440-18-8				0.2	0 - 0.4		
└2	227-BLND-001-A		(not available)	1	4,8				not yet answered
└3	Evoprene		13609201 / 1		4,8			5.2	No
└4	Styrene-ethylene-butylene-styrene-block copolymer	104521-01-9				100			
└2	200-KABL-004-A	34459	(not available)	1	36,2				not yet answered
└3	Elastolan 1180 D 50		24535361 / 1		17,4			5.4.1	No
└4	PUR	-				99	98 - 100		
└4	Further Additives, not to declare	system				1	0 - 2		

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└3	CuSn2		11859094 / 2		18			3.2	No
└4	Copper	7440-50-8				97.72		D	
└4	Iron	7439-89-6				0.05	0 - 0.1		
└4	Nickel	7440-02-0				0.15	0 - 0.3	D	Not applicable [34]
└4	Phosphorus	7723-14-0				0.155	0.01 - 0.3		
└4	Lead	7439-92-1				0.025	0 - 0.05	D / P	Concentration within acceptable GADSL limits [44]
└4	Tin	7440-31-5				1.75	1 - 2.5		
└4	Zinc (metal)	7440-86-6				0.15	0 - 0.3		
└3	Sn 99,85		10877709 / 1		0.8			4.2	No
└4	Tin	7440-31-5				99.894732	99.85 - 100		
└4	Aluminium (metal)	7429-90-5				0.000298	0 - 0.001		
└4	Arsenic	7440-38-2				0.008946	0 - 0.03	D	
└4	Bismuth	7440-69-9				0.008946	0 - 0.03		
└4	Cadmium	7440-43-9				0.000298	0 - 0.001	D / P / SVHC	Concentration within acceptable GADSL limits [47]
└4	Copper	7440-50-8				0.008946	0 - 0.03	D	
└4	Iron	7439-89-6				0.002982	0 - 0.01		
└4	Lead	7439-92-1				0.014911	0 - 0.05	D / P	Concentration within acceptable GADSL limits [44]
└4	Antimony	7440-36-0				0.014911	0 - 0.05		



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└4	Zinc (metal)	7440-86-6				0.000298	0 - 0.001		
└4	Misc., not to declare	system				0.044732	0 - 0.15		
└2	232-ZGEL-001-A	17042	(not available)	1	1.28				not yet answered
└3	PA11	3	9237093 / 3		1.28			5.1.b	No
└4	Polyamide11	25035-04-5				100			
└2	227-WELL-003-G		(not available)	2	0.51				not yet answered
└3	POM		24097344 / 1		0.51			5.1.b	No
└4	Further Additives, not to declare	system				2			
└4	POM	-				98			
└2	227-ABKP-030-H		(not available)	1	20.76				Not Applicable
└3	PC ABS		37164953 / 1		20.76			5.1.b	No
└4	PC+ABS	-				100			
└2	PP 3,0x12 SICH. TORX	20346	(not available)	2	0.6				
└3	24CrMo5	1.7258	13931 / 4		0.6			1.1.1	No
└4	Carbon	7440-44-0				0.24	0.2 - 0.28		
└4	Chromium	7440-47-3				1.05	0.9 - 1.2		
└4	Manganese	7439-96-5				0.65	0.5 - 0.8		
└4	Molybdenum	7439-98-7				0.275	0.2 - 0.35		
└4	Nickel	7440-02-0				0.3	0 - 0.6	D	Not applicable [34]

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4	Phosphorus	7723-14-0				0.0175	0 - 0.035		
4	Sulphur	7704-34-9				0.0175	0 - 0.035		
4	Silicon	7440-21-3				0.2	0 - 0.4		
4	Iron	7439-89-6				97.25			
2	227-DRTA-101-C		(not available)	1	1.14				
3	227-DRTA-001-C		(not available)	1	1.06				not yet answered
4	POM		24097344 / 1		1.06			5.1.b	No
5	Further Additives, not to declare	system				2			
5	POM	-				98			
3	227-FDDR-003-A		(not available)	1	0.08				
4	C80E	1.1221	12880 / 3		0.08			1.1.1	No
5	Carbon	7440-44-0				0.61	0.57 - 0.65		
5	Chromium	7440-47-3				0.2	0 - 0.4		
5	Manganese	7439-98-5				0.75	0.6 - 0.9		
5	Molybdenum	7439-98-7				0.05	0 - 0.1		
5	Nickel	7440-02-0				0.2	0 - 0.4	D	Not applicable [34]
5	Phosphorus	7723-14-0				0.015	0 - 0.03		
5	Sulphur	7704-34-9				0.0175	0 - 0.035		
5	Silicon	7440-21-3				0.2	0 - 0.4		



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-5	Iron	7439-89-6				97.9575			
-2	Frontfolie	227-FRFL*	471121101 / 1	1	0.7				Not Applicable
-3	PVC	67203	3168542 / 1		0.538			5.5.1	No
-4	Chlorinated polyvinyl chloride	68648-82-8				100			
-3	Siebdruckfarbe/Tampondruckfarbe ausgehärtet		9448512 / 3		0.052			6.1	
-4	Pigment portion, not to declare	system				65			
-4	Organic Ingredient, not to declare	system				35	30 - 40		
-3	Siebdruckkleber		(not available)		0.11			6.2	
-4	Misc., not to declare	system				1	0 - 2		
-4	Organic Ingredient, not to declare	system				1	0 - 2		
-4	Acrylic polymer	37325-11-4				98			
-2	227-TYSH-000-B		(not available)	1	0.09				not yet answered
-3	PET-Label/PET-Etikett	5-30 mg/cm² / mean 15 mg/cm²	14085118 / 5		0.09				
-4	PET-Folie für Etiketten		(not available)			65	60 - 70	5.1.b	No
-5	PET	-				98			
-5	Phthalate plasticizer ISO 1043-3, not declarable	-				1	0 - 2		
-5	Misc., not to declare	system				1	0 - 2		

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4	Sieb-/Tampon-/Flexo- /Buchdruckfarbe ausgehärtet		9448512 / 4			1.5	1 - 2	6.1	
5	Pigment portion, not to declare	system				65			
5	Organic Ingredient, not to declare	system				35	30 - 40		
4	Acrylharzkleber für Etiketten		14084231 / 1			33.5		6.2	
5	Acrylic resin	-				99			
5	Misc., not to declare	system				1	0 - 2		
2	232-EINS-101-A		(not available)	1	70.34				
3	232-EINS-001-A		(not available)	1	51				
4	GD-ZnAl4Cu1	2.2141	570864 / 1		51			3.3	No
5	Aluminium (metal)	7429-90-5				3.9	3.5 - 4.3		
5	Copper	7440-50-8				0.75	0.4 - 1.1	D	
5	Magnesium powder (not stabilized)	7439-95-4				0.04	0.02 - 0.06		
5	zinc	7440-66-6				95.229			
5	Iron	7439-89-6				0.05			
5	Nickel	7440-02-0				0.02		D	Not applicable [34]
5	Lead	7439-92-1				0.009		D / P	Concentration within acceptable GADSL limits [44]
5	Selenium	7782-49-2				0.002		D	
3	232-KLBA-001-B		(not available)	1	4.5				



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└4	Si2	44551/1	53951824 / 1		4.5			1.1.1	No
└5	Carbon	7440-44-0				0.08			
└5	Manganese	7439-96-5				0.46			
└5	Phosphorus	7723-14-0				0.014			
└5	Sulphur	7704-34-9				0.0175			
└5	Silicon	7440-21-3				0.054			
└5	Iron	7439-89-6				99.3745			
└3	232-BÜGL-001-D		(not available)	1	10.7				
└4	Si37-2G; S235JR+CR	1.0037	12221 / 4		10.7			1.1.1	No
└5	Carbon	7440-44-0				0.085	0 - 0.17		
└5	Nitrogen	7727-37-9				0.0045	0 - 0.009		
└5	Phosphorus	7723-14-0				0.02	0 - 0.04		
└5	Sulphur	7704-34-9				0.0175	0 - 0.035		
└5	Iron	7439-89-6				99.173			
└5	Manganese	7439-96-5				0.7	0 - 1.4		
└3	DIN 6923 M5		(not available)	2	2.07				
└4	X19CrMoNbVN11-1	1.4913	13583 / 2		2.07			1.1.2	No
└5	Carbon	7440-44-0				0.2	0.17 - 0.23		
└5	Chromium	7440-47-3				10.75	10 - 11.5		



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└5	Manganese	7439-98-5				0.65	0.4 - 0.8		
└5	Molybdenum	7439-98-7				0.65	0.5 - 0.8		
└5	Nitrogen	7727-37-9				0.075	0.05 - 0.1		
└5	Niobium	7440-03-1				0.4	0.25 - 0.55		
└5	Nickel	7440-02-0				0.4	0.2 - 0.6	D	Not applicable [34]
└5	Phosphorus	7723-14-0				0.0125	0 - 0.025		
└5	Sulphur	7704-34-9				0.0075	0 - 0.015		
└5	Silicon	7440-21-3				0.25	0 - 0.5		
└5	Vanadium	7440-82-2				0.2	0.1 - 0.3		
└5	Iron	7439-89-6				86.39425			
└5	Boron	7440-42-8				0.00075	0 - 0.0015		
└5	Aluminium (metal)	7429-90-5				0.01	0 - 0.02		
└2	227-SCHS-001-A		(not available)	1	1.34				
└3	C75S	1.1248	12888 / 2		1.34			1.1.1	No
└4	Carbon	7440-44-0				0.75	0.7 - 0.8		
└4	Manganese	7439-98-5				0.75	0.6 - 0.9		
└4	Phosphorus	7723-14-0				0.0125	0 - 0.025		
└4	Sulphur	7704-34-9				0.0125	0 - 0.025		
└4	Silicon	7440-21-3				0.25	0.15 - 0.35		



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└4	Iron	7439-89-8				97.775			
└4	Chromium	7440-47-3				0.2	0 - 0.4		
└4	Molybdenum	7439-98-7				0.05	0 - 0.1		
└4	Nickel	7440-02-0				0.2	0 - 0.4	D	Not applicable [34]
└2	227-ZEIG-001-B		(not available)	1	1.93				not yet answered
└3	POM		24097344 / 1		1.93			5.1.b	No
└4	Further Additives, not to declare	system				2			
└4	POM	-				98			

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Business Case Scope:

A completed exam

Benefits:	Currency:	€
Current product cost CH (€)		3317
New product cost CH (€)		3047
Savings/piece CH (€)		270
Savings/year CH (€)		16477
Current product cost HP (€)		3882
New product cost HP (€)		3682
Savings/piece HP (€)		200
Savings/year HP (€)		2994
Current product cost LE (€)		2589
New product cost LE (€)		2330
Savings/piece LE (€)		258
Savings/year LE (€)		38230
Current product cost LE/HP (€)		2970
New product cost LE/HP (€)		2782
Savings/piece LE/HP (€)		188
Savings/year LE/HP (€)		11458
Product cost Impact		
Investment (€)		

Savings/piece CH [%]
8,1%

Savings/piece HP [%]
5,1%

Savings/piece LE [%]
10,0%

Savings/piece LE/HP [%]
6,3%

Savings/year TOT [%]
8,4%

Years:	2016	2017	2018	2019
Benefits	69 158	69 158	69 158	69 158
Costs (Negative)	0			
Cumulative Cashflow	69 158	138 317	207 475	276 633

