

# DEKRA 'Product Chem Risk' - Unterstützung bei der SVHC-Risikobeurteilung

Jochen Dettke, DEKRA Assurance Services



# Ausgangslage

## REACH Art. 33:

(1) *Jeder Lieferant eines Erzeugnisses, das einen die Kriterien des Artikels 57 erfüllenden und gemäß Artikel 59 Absatz 1 ermittelten Stoff in einer Konzentration von mehr als 0,1 Massenprozent (w/w) enthält, stellt dem Abnehmer des Erzeugnisses die ihm vorliegenden, für eine sichere Verwendung des Erzeugnisses ausreichenden, Informationen zur Verfügung, gibt aber mindestens den Namen des betreffenden Stoffes an.*

## Entscheidung des EUGH vom 10.09.2015:

- „Einmal Erzeugnis – immer Erzeugnis“

## Beispiel Kombizange:

- 1 komplexes Produkt
- 5 Erzeugnisse
- 2 Materialien



# Ansatzpunkte

## Laboranalytik



## Lieferantenkommunikation



## Datenbankrecherche

Eigenschaft	EC-No.	CAS-No.	"Gummi"										"Plastik"				
			Elastomere										Thermoplaste				
			NR	SBR	BR	CM, CSM, CR, ECO	BR, IR, IIR	EPDM	Q	FPM	Polyethylen-propylen (PE, PPE)	PET/PBT, PC, POM, PLA	Polyurethane (PU)	Polystyrol (PS)	Polycarbonat (PC)	Formaldehyd/Amin-Harze, Mel	Formaldehyd/Phenol-Harze
rc. 1B	219-943-6	2580-56-5									1	1	1	1	1	1	
rc. 1B	208-953-6	548-02-9															
robenzen	201-757-1	87-61-8									1						
rc. 1B	202-486-1	96-18-4															
robenzen	204-428-0	120-82-1															
pr. 1B	276-158-1	71988-89-6															
pr. 1B	271-084-6	89515-42-4															
pr. 1B	284-032-2	84777-06-0															
pr. 1B, Re	203-977-3	112-49-2															
rc. 1B	203-444-5	106-93-4															
rc. 1B	203-458-1	107-06-2															
pr. 1B	211-076-1	629-14-1															
pr. 1B, Re	203-794-9	110-71-4															
robenzen	203-608-6	108-70-3															
ta. 1B	219-514-3	2451-62-9															
ta. 1B	423-400-0	59653-74-6															
rc. 1A, Mul	203-450-8	106-99-0															
T	273-227-8	68953-84-4															
T	273-226-2	68953-83-3															
T	270-820-3	68478-45-5															
robenzene	203-400-5	106-46-7															

# Laboranalytik - Optionen zur Fokussierung

- Alle Erzeugnisse des Produkts
- alle Kandidatenstoffe

- Alle Materialien
- alle Kandidatenstoffe

- Alle Materialien
- Auswahl der Kandidatenstoffe materialbezogen

- Mischproben gleicher Materialien
- Auswahl der Kandidatenstoffe materialbezogen
- Screening

# Laboranalytik – risikobasiertes Screening

## Modul 1: Metalle anorganischer Verbindungen

Blei (Pb), Chromat (CrVI), Arsen (As), Bor (B), Zinn (Sn), Cadmium (Cd), Cobalt (Co)

... für die Mehrzahl der Materialien  
(z.B. Metalllegierungen, Kunststoffe)

## Modul 2: Organische Verbindungen mit hoher Wahrscheinlichkeit, z.B.

Weichmacher, Nonylphenol, Flammschutzmittel, PAK, Formamid, etc.

...für Kunststoffe, Textilien, etc.

### Modul 3: Farbstoffe

Azofarbstoffe  
Dispersionsfarbstoffe

für gefärbte Textilien

### Modul 4: Lösemittel

Alkane  
Sonstige  
Lösemittel

für flüssige Proben

### Modul 5: Beschichtungen

Fluorid  
optional  
Fluorcarbonsäuren

für beschichtete  
Materialien

### Modul 6: Polymere

Polymerisations-  
edukte

in Rohstoffen

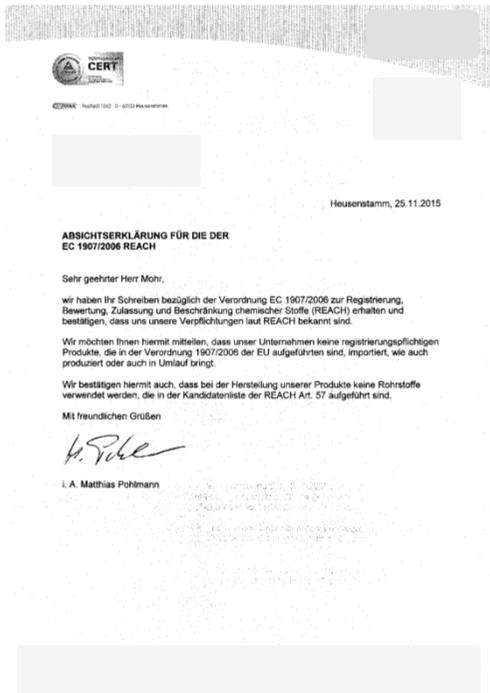
### Modul 7: Spezielle Stoffe

Duftstoffe, Hydrazin,  
Mineralfasern, etc.

Sonderfälle

# Lieferantenkommunikation

## Unterschiedene Erklärungen



## Lieferantenbewertung

### SVHC REACH Compliance Questionnaire (please mark where appropriate)

Company:

Articles you are delivering to

	yes	no	no info available
1. Are there any substances listed in the ECHA's SVHC list present in the article? If yes, please provide us with the following information <sup>1</sup> : • Name of the article (or packaging) • Substance name • CAS number • Classification and SVHC properties • Concentration in the article • Information for safe handling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Are there any recycled plastic materials used to produce an article or parts of an article? If yes, please specify the material of the recycled plastic.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Are there any dyes, inks etc. used to produce an article or parts of an article which may contain SVHCs or may produce them by decomposition (e.g. chromate, anthracene)? If yes, please inform us about the relevant SVHC substances. • Substance name • CAS number	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Are the statements made above based on information obtained from your suppliers?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Are the statements made above based on information obtained by own testing?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Does your company conduct own chemical checks of the raw materials used on a regular basis?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Does your company run an own laboratory for chemical analyses?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Does your company run an own quality control and management system? If yes, please specify. How does your company manage the topic of REACH? If applicable, please give a short description of processes especially implemented in your company to comply with REACH.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Date: \_\_\_\_\_ Person in charge and signature: \_\_\_\_\_

<sup>1</sup> Your information for safe handling may be like the example from: [Guidance on requirements for substances in articles](http://guidance.echa.europa.eu/guidance_en.htm#GD_PROCC), page 60 ([http://guidance.echa.europa.eu/guidance\\_en.htm#GD\\_PROCC](http://guidance.echa.europa.eu/guidance_en.htm#GD_PROCC))

## Lieferantenentwicklung

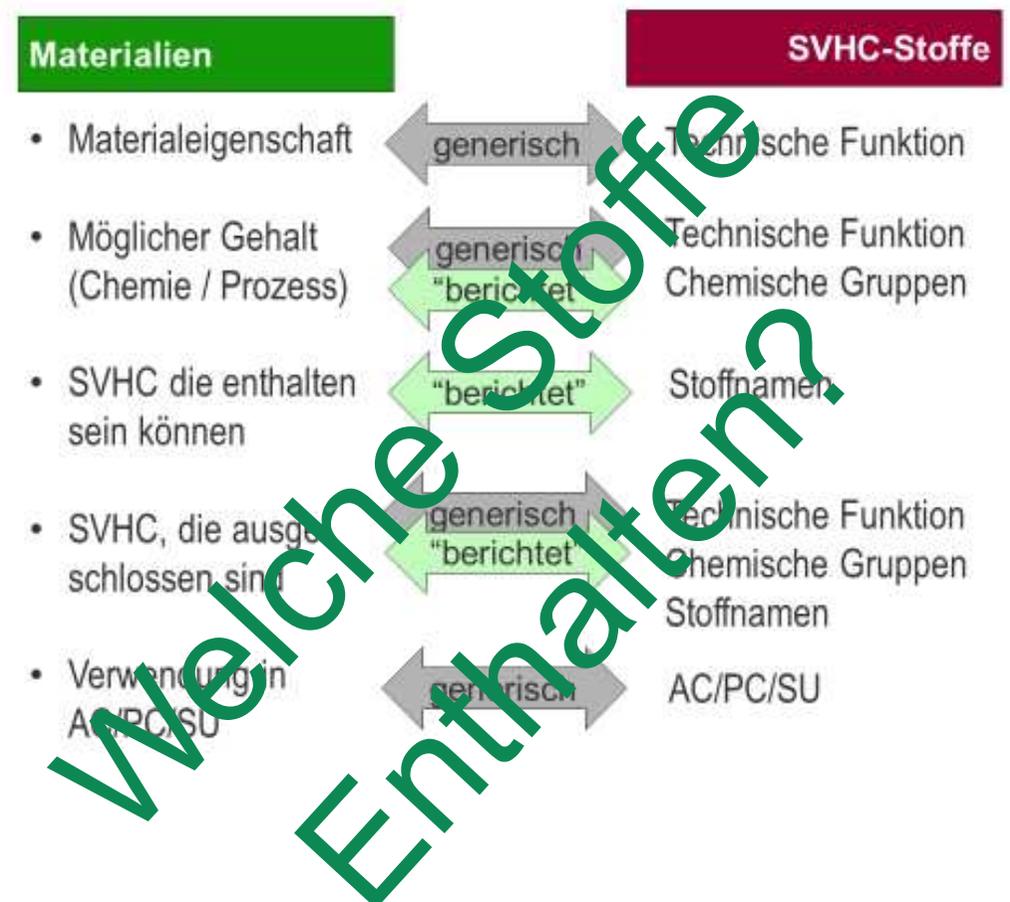


# Welche Stoffe kommen in Materialien vor

## CEN/TR 16417:2016 (24 SVHC in Schuhen)

Substances of Very High Concern	CAS #	Group	
Benzyl butyl phthalate (BBP)	85-93-7	Phthalates	
Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7		
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	11888-89-6		
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4		
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0		
1,2-Benzenedicarboxylic acid, dibutyl ester, branched and linear (DHP)	60515-50-4		
Bis(2-methoxyethyl) phthalate	117-82-3		
Dibutyl phthalate (DBP)	34-74-2		
Diisobutyl phthalate (DIBP)	8-69-5		
Diisopentylphthalate (DIPN)	605-50-5		
Dipentyl phthalate (DIP)	131-18-0	Solvents	
Dihexyl phthalate	84-75-3		
N-Pentylisobutylphthalate	776297-69-9		
1-Methyl-2-pyrrolidone	872-50-4		
N,N-Dimethylformamide	68-12-2		
Formamide	75-12-7		
Alkanes, C10-13, chloro mono-chain Chlorinated Paraffins)	85535-84-8		SCCP
Anthracene	120-12-7		PAH

## Oekopol Studie: Material Information Platform



**DEKRA PRODUCT CHEM RISK** powered by

Jochen Dettke | DEKRA e.V.

Risiko Analyse
 Stammdaten

Materialien

Materialien

Suche nach einem Material...

**Farbe**

**Naturstoffe**

**Plastik**

**Duroplaste**

**Thermoplaste**

- Polypropylen: Folien, Verpackungsmaterial
- Polystyrol (Styropor)
- **Polyurethane: Schaum, Kunstleder**
- Styrol-Ethen-Buten Terpolymer
- Thermoplastische Elastomere
- Polyvinylidenchlorid (Dampfsperre)
- Polyolester
- Polyoxymethylen, Polyacetal
- Polypropylencarbonat
- Polyethylen-Vinylacetat
- [SB] Styrol-Butadien-Copolymer
- Acrylnitril Butadien Styrol Copolymerisat
- Polyphenylensulfid
- Polyester: Gewebe, Fasern, Organza, Satin, Plüsch, Samt...
- Polyethylen: Folien, Verpackungsmaterial
- Lycra [PU-/Polyol-Fasern]

**Polyurethane: Schaum, Kunstleder**

Risiko Bewertung: ● Kritisch

WAHR. IT	SUBSTANZ	CAS
↑	2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol...	36437-37-3
↑	Bis(2-ethylhexyl)phthalat (DEHP)	117-81-7
↑	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1
↑	2-Benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7
↑	Tris(2-chlorethyl)phosphat (TCEP)	115-96-8
↓	[4-[[[4-Anilino-1-naphthyl][4-(dimethylamino)phenyl]methyl...	2580-56-5
↓	Formaldehyd, Oligomere mit Anilin (PMDA)	25214-70-4
↓	Benzo[a]pyren; Benzo[def]chrysen	50-32-8
↓	4,4'-Diaminodiphenylmethane (MDA)	101-77-9

Dieses Material könnte insgesamt 36 Substanz(en) enthalten, die als SVHC gelistet sind. Von diesen 36 Substanzen kommen 5 mit einer extrem hohen Wahrscheinlichkeit im Material vor. Deshalb wird der Risikostatus dieses Produkts als ● kritisch eingestuft. Es wird dringend empfohlen, für ein Produkt, das dieses Material enthält, Informationen vom Support anzufordern.

✉ Unterstützung anfordern...

# DEKRA Tool: SIM Datenbank

## **Stoffe:**

- REACH Kandidatenstoffe

## **Materialgruppen:**

- 11 Elastomersorten
- 21 Thermoplaste
- 13 Duroplaste
- 13 Farben
- 16 Holz- und Gewebesorten
- 11 Stein-, Glas- und Keramiksorten
- 17 Metallgruppen
- 30 Gruppen für Elektro- und Elektronikbauteile und –materialien
- diverse Sondermaterialien

## **Angaben zum Vorkommen:**

- Annex XV Dossier
- Datenbanken
- Expertenwissen
- Erkenntnisse aus dem DEKRA Labor

# Cloud basiert

<https://sustainhub.ipoint-systems.com/productchemrisk/>

**DEKRA PRODUCT CHEM RISK** powered by DEKRA

Jochen Dettke | DEKRA e.V.

Risiko Analyse | Stammdaten

**Materiale**

Suche nach einem Material

**Farbe**

**Naturstoffe**

**Plastik**

- Dünnplaste
- Thermoplaste
  - Polystyrol: Folien, Verpackungsmaterial
  - Polystyrol (Styropor)
  - Polyurethane: Schaum, Kunstleder**
  - Styrol-Ethen-Buten Terpolymer
- Thermoplastische Elastomere
- Polyvinylidenchlorid (Dampfsperre)
- Polycarbonat
- Polyacrylnitril, Polyacetal
- Polypropylencarbonat
- Polyethylen-Vinylacetat
- [SB] Styrol-Butadien-Copolymer
- Acrylnitril-Butadien Styrol Copolymerisat
- Polyphenylensulfid
- Polyester: Gewebe, Fasern, Organza, Satin, Plüsch, Samt...
- Polyethylen: Folien, Verpackungsmaterial
- Lycre (PUL-Polyol-Fasern)

**Polyurethane: Schaum, Kunstleder**

Risiko Bewertung: Kritisch

WAHR. # SUBSTANZ CAS

2-(2H-Benzotriazol-2-yl)-4-[tert-butyl]-6-(sec-butyl)phenol...	36437-37-3
Bis(2-ethylhexylphthalat) (DEHP)	117-81-7
2-(2H-Benzotriazol-2-yl)-4,6-dimethylphenol (J.V.328)	25073-55-1
2-Benzotriazol-2-yl-4,6-di-tert-butylphenol (J.V.320)	30467-71-7
Tris(2-chlorethyl)phosphat (TCEP)	115-06-8
[4-[4-Anilino-1-naphthyl]4-(dimethylamino)phenyl]methyl...	2580-56-5
Formaldehyd, Oligomere mit Anilin (PMDA)	25214-70-4
Benzol[a]pyren, Benzol[de]fchrysen	50-32-8
4,4'-Diaminodiphenylmethane (MDA)	101-77-9

Dieses Material könnte insgesamt 36 Substanzen enthalten, die als SVHC gelistet sind. Von diesen 36 Substanzen kommen 5 mit einer extrem hohen Wahrscheinlichkeit im Material vor. Deshalb wird der Risikostatus dieses Produkts als **kritisch** eingestuft. Es wird dringend empfohlen, für ein Produkt, das dieses Material enthält, Informationen vom Support anzufordern.

Unterstützung anfordern...

# Weiterentwicklung

## **Materialebene**

- Historie
- Informationen zur Verwendung der SVHC
- Reporting

## **Möglichkeit, Produkte zu definieren (BOM Upload)**

- Historie
- Produktdefinition über BOM-Upload
- Reporting

# Historie der angesehenen Materialien

 **Product Chem Risk** powered by DEKRA

 Products
Materials
SVHC's

- ▶ Rubber
- ▶ Plastic
- ▶ Color
- ▶ Natural Substances
- ▶ Stone / Glass
- ▶ Metal
- ▶ Products / Product Groups
- ▶ Electronic Components

### Recently Viewed Materials

MATERIAL NAME	VIEW DATE	MATERIAL GROUP	RISK STATUS
Natural Rubber	01.02.2017 16:59	Rubber	<span style="color: red;">●</span> Critical
Styrene Butadiene Rubber	01.02.2017 10:38	Rubber	<span style="color: red;">●</span> Critical
Epoxy Resin	30.01.2017 14:05	Plastic	<span style="color: red;">●</span> Critical
Isoprene Rubber	30.01.2017 12:12	Rubber	<span style="color: red;">●</span> Critical
Polyvinylchloride	27.01.2017 15:34	Plastic	<span style="color: red;">●</span> Critical
MDF (Medium-density Fibrebo...	27.01.2017 13:21	Natural Substances	<span style="color: orange;">●</span> Serious
Cotton	27.01.2017 08:29	Natural Substances	<span style="color: orange;">●</span> Serious
Gold	26.01.2017 14:43	Metals	<span style="color: yellow;">●</span> Low
Copper	26.01.2017 11:32	Metals	<span style="color: orange;">●</span> Serious
Leather	25.01.2017 15:31	Natural Substances	<span style="color: orange;">●</span> Serious
Concrete	25.01.2017 12:48	Stone / Glass	<span style="color: orange;">●</span> Serious

[View All](#)

# Informationen zu den erwarteten SVHC

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Products
Materials
SVHC's

- ▼ Rubber
- ▼ Plastic
- ▼ Color
- ▼ Natural Substances
- Pressure Impregnated Timber
- ▼ Stone / Glass
- ▼ Metal
- ▼ Products / Product Groups
- ▼ Electronic Components

### Pressure Impregnated Timber

*Chemically treated wood to protect against biological decomposition*

Risk Status ● Critical

[More Material Details](#)

### Probably Contained SVHC's

This material may contain a total of 16 substances which are listed as a SVHC. 4 of these SVHCs are **extremely likely** to occur, which is why this material has a **critical** risk status. It is strongly recommended to perform a material assessment for products containing this material.

Do you want to start a material assessment? [Request Support >](#)

Do you use this material in one of your products and need more information on its composition? Create a request and send it to your supplier. [Supplier Request >](#)

PROBABILITY OF OCCURRENCE	SUBSTANCE NAME	CAS NUMBER	
↑ extremely likely	Chromium trioxide	215-607-8	<div style="border: 1px solid #ccc; padding: 5px; background-color: #f0f0f0;"> <p>Concentration in Material: 10% -100%</p> <p>Usage Information</p> <p>Used in the following products:</p> <ul style="list-style-type: none"> <li>Adsorbents</li> <li>pH regulators</li> <li>Water treatment products</li> <li>Metal and non-metal surface treatment products</li> <li>Laboratory chemicals</li> </ul> <p>Used for the manufacture of:</p> <ul style="list-style-type: none"> <li>Chemicals</li> <li>Plastic products</li> <li>Fabricated metal products</li> </ul> </div>
↑ extremely likely	Disodium tetraborate, anhydrous		
↑ extremely likely	Potassium dichromate		
↑ extremely likely	Sodium dichromate		

[View All](#)

### Products Containing this Material

PRODUCT NAME	PRODUCT NUMBER	PRODUCT CATEGORY	RISK STATUS
Pencil, wooden	000122	Office	● Serious

# Reporting auf Materialebene

## Product Chem Risk Request

This request asks you to declare the composition of a material provided by your company. Please declare which of the following Substances of Very High Concern (SVHC) are used for the production of :

Material Name

**Pressure Impregnated Timber**

The requestor obtains Pressure Impregnated Timber for the production of: Pencil, wooden.

## Request Information

This request was created by

Company DEKRA Industrial GmbH

Creator J. Dettke

Created on 02.02.2017

According to the information gained with Product Chem Risk, this material might contain 16 substances which are listed as a SVHC. Please check the SVHC's used by your company to produce Pressure Impregnated Timber in the following list.

Material Name

Pressure Impregnated Timber

Internal Material Name x

Druckimprägniertes Holz

*This table shows which SVHC's may be contained in the material. SVHC's as selected in this list will be included in the request. Probability of occurrence will not be included.*

INCLUDE IN REPORT	PROBABILITY OF OCCURRENCE	SUBSTANCE NAME	EC NUMBER	CAS NUMBER	USAGE INFORMATION
<input checked="" type="checkbox"/>	<span style="color: green;">✓</span> <span style="color: orange;">+</span> <span style="color: red;">-</span> <span style="color: red;">↑</span>				
<input checked="" type="checkbox"/>	<span style="color: red;">↑</span> extremely likely	Chromium trioxide	215-607-8	1333-82-0	
<input checked="" type="checkbox"/>	<span style="color: red;">↑</span> extremely likely	Disodium tetraborate, anhydrous	215-540-4	1330-43-4 12179-04-3 1303-96-4	
<input checked="" type="checkbox"/>	<span style="color: red;">↑</span> extremely likely	Potassium dichromate	231-906-6	7778-50-9	
<input checked="" type="checkbox"/>	<span style="color: red;">↑</span> extremely likely	Sodium dichromate	234-190-3	7789-12-0 10588-01-9	
<input checked="" type="checkbox"/>	<span style="color: red;">↑</span> extremely likely	Diboron trioxide	215-125-8	1303-86-2	
<input checked="" type="checkbox"/>	<span style="color: red;">↑</span> extremely likely	Ammonium dichromate	232-143-1	7789-09-5	

# Historie der betrachteten Produkte

PCR Product Chem Risk powered by DEKRA





Products
Materials
SVHC's

[+ Create Product](#)
[Upload Products](#)

- [▶ Electronics](#)
- [▶ Clothing](#)
- [▶ Office](#)
- [▶ Lifestyle + Beauty](#)
- [⊕ Add Product Category](#)

### Recently Viewed Products

PRODUCT NAME	VIEW DATE	PRODUCT GROUP	RISK STATUS
Smartphone Sleeve	01.02.2017 08:23	Electronics	<span style="color: yellow;">●</span> Low
Selfie Stick	30.01.2017 14:05	Electronics	<span style="color: yellow;">●</span> Low
Yellow Cotton Shirt	30.01.2017 10:12	Clothing	<span style="color: orange;">●</span> Serious
Pencil Blue	27.01.2017 16:43	Office	<span style="color: yellow;">●</span> Low
Power Bar	27.01.2017 16:40	Electronics	<span style="color: yellow;">●</span> Low
Pencil Red	27.01.2017 13:23	Office	<span style="color: yellow;">●</span> Low
Carbon Fibre Running Shirt	27.01.2017 10:08	Clothing	<span style="color: red;">●</span> Critical
In-Ear Headphones	26.01.2017 17:03	Electronics	<span style="color: yellow;">●</span> Low
Makeup Remover	26.01.2017 15:32	Lifestyle + Beauty	<span style="color: green;">●</span> No
External Hard Drive	26.01.2017 09:24	Electronics	<span style="color: red;">●</span> Critical
Pencil Black	25.01.2017 08:54	Office	<span style="color: orange;">●</span> Serious

[View All](#)

# Produktdefinition über BOM-Upload

PCR Product Chem Risk powered by DEKRA
🔔 👤

Products
Materials
SVHC's

+ Create Product
📄 Upload Products

▼ Electronics

- USB Car Charger
- In-Ear Headphones
- Tablet
- Smartphone Sleeve
- Selfie Stick
- Docking Station
- Power Bar
- External Hard Drive

▶ Clothing

▶ Office

▶ Lifestyle + Beauty

[⊕ Add Product Category](#)

## USB Car Charger

*Charger with an integrated USB interface and a LED Flashlight*

Risk Status  
● Serious

[More Product Details](#)

### Materials used in this Product

Your product contains of 4 materials. 1 of these materials is **very likely** to contain SVHCs, which is why this product has a **serious** risk status. It is recommended to do a material assessment for this product.

Do you want to start a material assessment?

[Request Support >](#)

Do you want to report this product's composition?

[Create Report >](#)

MATERIAL NAME	MATERIAL CATEGORY	RISK STATUS
Polyvinylchloride (PVC)	Polymers	● Serious
Polyethylen/-propylen (PE/PP)	Polymers	● Low
AcrylButadienStyrol (ABS/AS)	Polymers	● Low
Metal (Iron)	Metals	● Low

[⊕ Add Material](#)

*Select a material and create a request for more information on the material's composition*

# Reporting auch auf Produktebene

PCR Product Chem Risk powered by DEKRA
🔔 👤

☰
Products
Materials
SVHC's

← Back
Report Language English ▾
✉ Send Report

### Product Chem Risk Report

This report declares which SVHCs may be contained in the materials used for production of:

Product Name  
**USB Car Charger**

Product Number  
**1234**

DEKRA Industrial GmbH hereby declares that the materials in this report used for the production of USB Car Charger may contain the following SVHC's:

Material Name: **Polyvinyl Chloride (PVC)**    Internal Material Name: **PVC**

This table shows which SVHC's may be contained in the material. SVHC's as selected in this list will be included in the request. Probability of occurrence will not be included.

INCLUDE IN REPORT	PROBABILITY OF OCCURENCE	SUBSTANCE NAME	EC NUMBER	CAS NUMBER	USAGE INFORMATION
<input checked="" type="checkbox"/>	<span style="color: red;">↑</span> extremely likely	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters, 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	271-094-0 272-013-1	68515-51-5 68648-93-1	
<input checked="" type="checkbox"/>	<span style="color: red;">↑</span> extremely likely	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	
<input checked="" type="checkbox"/>	<span style="color: red;">↑</span> extremely likely	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	
<input checked="" type="checkbox"/>	<span style="color: red;">↑</span> extremely likely	Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7	
<input checked="" type="checkbox"/>	<span style="color: red;">↑</span> extremely likely	Antimony trioxide	215-175-0	1309-64-4	
<input checked="" type="checkbox"/>	<span style="color: red;">↑</span> extremely likely	Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	
<input checked="" type="checkbox"/>	<span style="color: red;">↑</span> extremely likely	Dibutyl phthalate (DBP)	201-557-4	84-74-2	

### Report Information

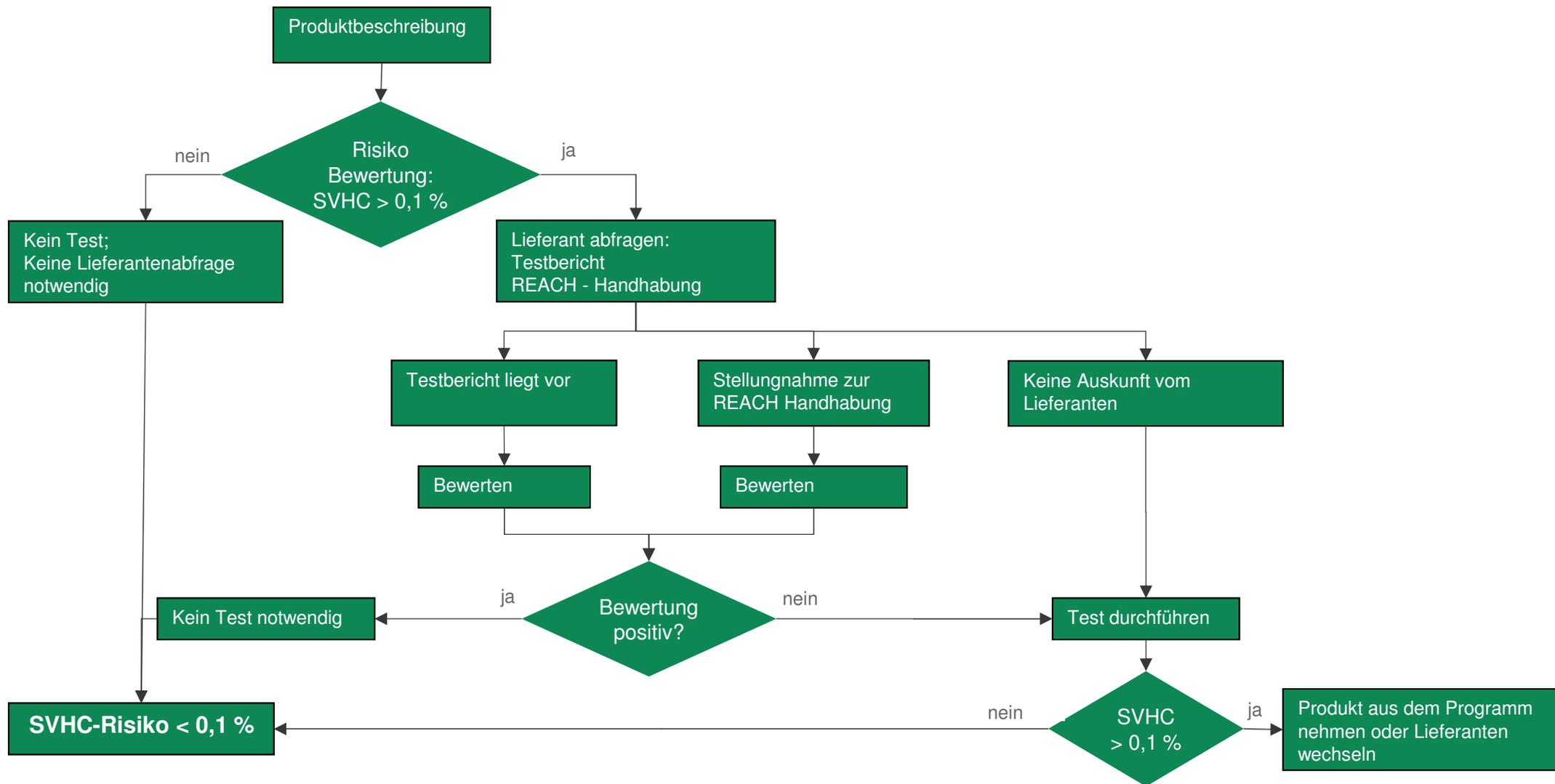
This report was created by

Company: DEKRA Industrial GmbH

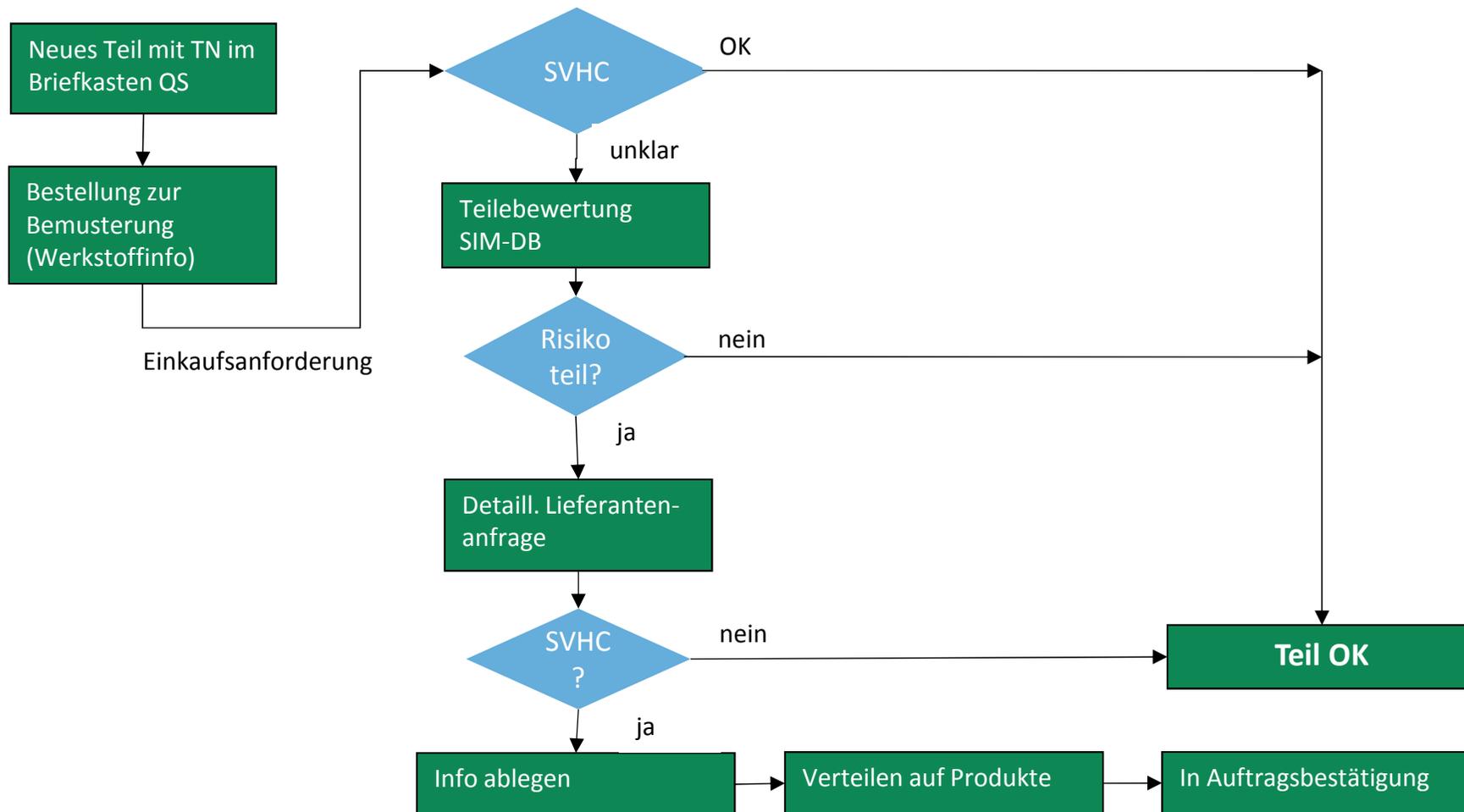
Creator: J. Dettke

Created on: 02.02.2017

# Praxisbeispiel 1: Werkzeughandel



# Praxisbeispiel 2: Hersteller von Elektromotoren



# Fazit

## PCR Tool

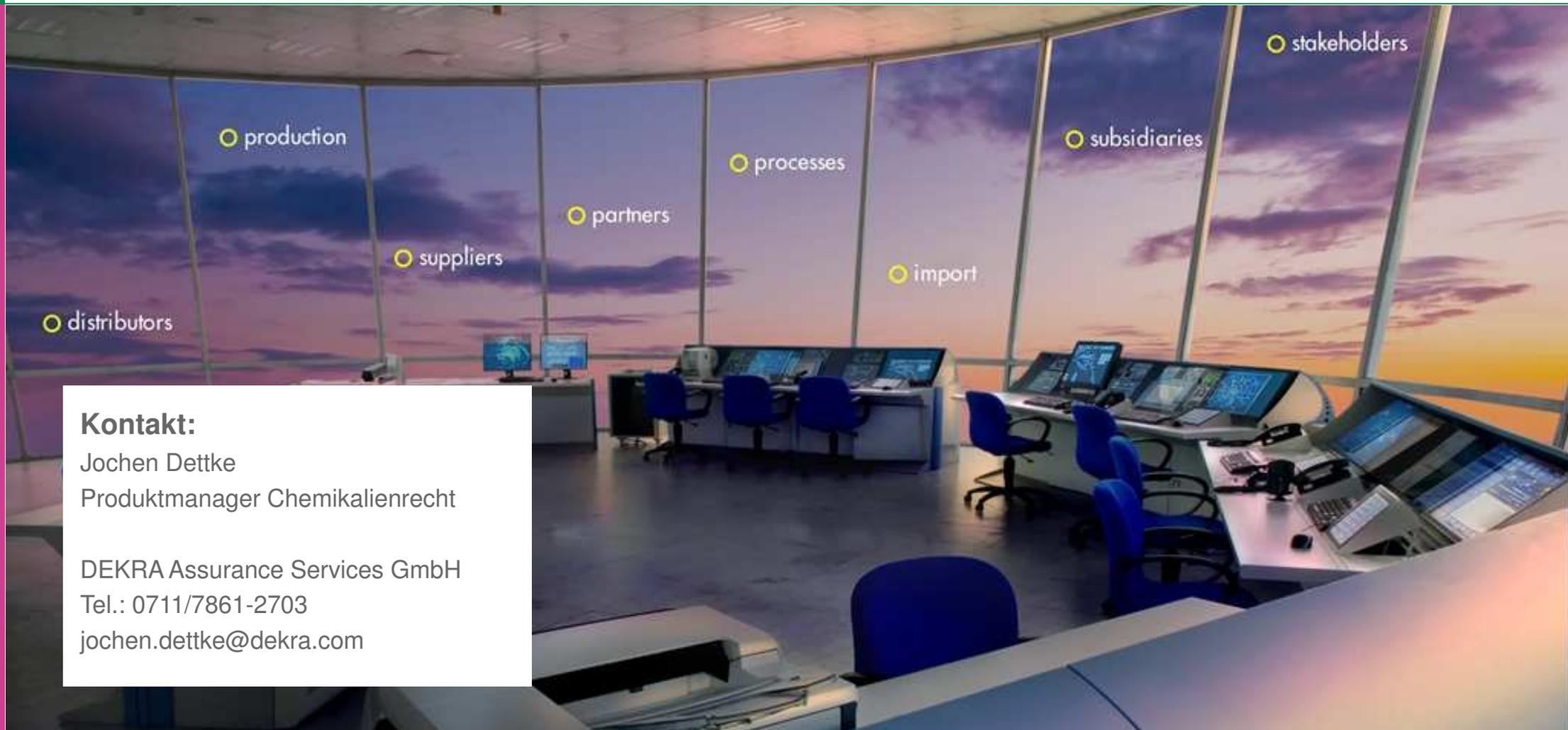
- materialbasiert
- fokussiert auf kritische Produkte und Teile
- SVHC-Ergebnis kann für Kundenkommunikation genutzt werden
- SVHC-Stoffliste immer auf dem aktuellen Stand
- Stoffliste erweiterbar (CMR, CA Prop. 65, etc.)

## SVHC Management

- pragmatisch
- effizient
- verbessert die Compliance

## Testzugang mit 6 Materialien:

<https://ipoint.typeform.com/to/XnFMvN>



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