

<b>6.1.3 FB KS negative list</b>			
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## **Purpose**

### **Prohibition and declaration of substances**

The aim of this document is to ensure that substances, preparations and the disposal of intermediate and end products are handled in an environmentally friendly manner in compliance with occupational health and safety regulations. It supports the implementation of legal requirements and requirements of our customers. The obligation to comply with legal requirements is not influenced by the KS negative list.

### **Restriction of substances**

#### **Definition of limit value**

If no limit value is specified, a value of 0.1 mass % applies.

#### **Prohibited ingredients**

Prohibited ingredients are marked in the Annex with “V” (prohibitions). They must not be present in the material supplied with a concentration above the limit value. If exemptions from the relevant regulation are claimed for a prohibited ingredient, the exemption and the concentration of the ingredient must be indicated. Exceptions must be agreed in writing upon conclusion of the contract.

#### **Declarable ingredients**

Declarable ingredients are marked in the Annex with “D” (declarations). The concentration of the ingredient must be declared if it exceeds the limit value.

## **Compliance**

### **REACH regulation (Regulation (EC) no. 1907/2006)**

In October 2008, the European Chemicals Agency (ECHA) introduced the SVHC (Substance of very high concern) list. This can be supplemented several times a year.

Since February 2011, Annex XIV of the REACH Regulation has been filled with substances from the SVHC candidate list. After a transitional period, the substances listed in Annex XIV may not be placed on the market or used without authorization.

In accordance with the requirements of the REACH regulation, the supplier must declare the substance(s) and inform the responsible purchasing department in good time of possible consequences of the REACH Regulation.

Suppliers outside the EU must appoint a sole agent if they supply “substances, mixtures, and products” within the scope of the REACH Regulation.

The sole agent shall ensure that the REACH obligations are fulfilled. This must be communicated with purchasing.

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Directive on the restriction of hazardous substances (Directive 2011/65/EU)

In accordance with the requirements of the RoHS Directive, the supplier must declare the substance(s) and inform the responsible purchasing department in good time of possible consequences of the RoHS Directive.

EU ELV Directive (Directive 2000/53/EC)

In accordance with the requirements of the EU Directive on end-of-life vehicles (ELV Directive), the supplier must declare the substance(s) and inform the responsible purchasing department in good time of possible consequences of the ELV Directive.

Regulation on Prohibited Chemicals

In accordance with the requirements of the Regulation on Prohibited Chemicals, the supplier must take the substance(s) into account and inform the responsible purchasing department in good time of possible consequences of the Regulation on Prohibited Chemicals.

**Material changes**

Changes of delivered materials resulting from changes of legal requirements must be agreed upon with Purchasing at an early stage. This applies in particular if a temporary exception has been made to legal requirements and the deadline expires. If no other agreement has been made, the material changes must be completed at least one year before the legal deadline.

**Confirmation feedback**

The supplier confirms on the cover sheet that the requirements of the KS negative list have been complied with.

**Information obligation of the supplier**

The supplier undertakes to download the currently valid version of the KS negative list from the Internet at:

<https://www.kolbenschmidt-pistons.com>

as well as the current version of the:

- Reach Regulation
- RoHS Directive
- EU ELV Directive
- Persistent organic pollutants regulation
- VKIS-VSI List of Substances for Metal Working Fluids
- Regulation on Prohibited Chemicals

must be obtained and taken into account.

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The supplier acknowledges the conditions contained in the KS negative list.

Compliance with the KS negative list refers to deliveries for

Kolbenschmidt Pistons Germany GmbH

with following products:

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Company \_\_\_\_\_

Name in block letters \_\_\_\_\_

Signature \_\_\_\_\_

Location and date \_\_\_\_\_

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### Regulations on the ELV Directive

Regulated ingredients	CAS no.		Limit value
Prohibited ingredients (V)			
Lead	7439-92-1	V	0.1
Cadmium	7440-43-9	V	0.01
Mercury	7439-97-6	V	0.1
Chromium VI	14977-61-8	V	0.1

**In the respectively valid version!**

[“ELV Directive ANNEX II:  
Materials and components excluded from Article 4\(2\)\(a\)”](#)

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## Regulations for RoHS

**In the respectively valid version!**

[Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment](#)

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## Regulations for cooling lubricants

**In the respectively valid version!**

[Prohibited ingredients \(P\)VKIS-VSI List of Substances](#)

Additional prohibited ingredients	CAS no.	Limit value
Ester oils	Product group	V 0.0

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## Regulations for POP

**In the respectively valid version!**

[Regulation \(EU\) 2019/1021 of the European Parliament and of the Council of June 20th, 2019 on persistent organic pollution" \(POP-Regulation\)](#)

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#### Controls for polycyclic aromatic hydrocarbons

Regulated ingredients	CAS no.		Limit value according to VO 1272/2013 REACH Annex XVII	Remarks
<b>Prohibited ingredients (V)</b>				
Benzo(a)pyrene	50-32-8	D/V	Declaration obligation per PAH from 1 ppm Prohibition: per PAH a) < 1 mg/kg (1 ppm) when intended for the general public and plastic or rubber components that, under normal or reasonably foreseeable conditions of use, come into direct, prolonged, or repeated brief contact with the skin or oral cavity b) < 0.5 mg/kg (0.5 ppm) for toys/items for infants and young children when intended for the general public and plastic or rubber components that, under normal or reasonably foreseeable conditions of use, come into direct, prolonged, or repeated brief contact with the skin or oral cavity	EPA* + GADSL + Reach Annex XVII
Acenaphthene	83-32-9	D/V		EPA*
Acenaphthylene	208-96-8	D/V		EPA*
Anthracene	120-12-7	D/V		REACH + EPA* + GADSL
Benzo(a)anthracene	56-55-3	D/V		EPA* + GADSL + Reach Annex XVII
Benzo(j)fluoranthene		D/V		Reach Annex XVII
Benzo(b)fluoranthene (benz(e)acephenanthrylene)	205-99-2	D/V		EPA* + GADSL + Reach Annex XVII
Benzo(e)pyrene		D/V		Reach Annex XVII
Benzo(ghi)perylene	191-24-2	D/V		EPA*
Benzo(k)fluoranthene	207-08-9	D/V		EPA* + GADSL + Reach Annex XVII
Chrysene	218-01-9	D/V		EPA* + GADSL + Reach Annex XVII
Dibenzo(a,h)-anthracene	53-70-3	D/V		EPA* + GADSL + Reach Annex XVII
Fluoranthene	206-44-0	D/V		EPA*
Fluorene	86-73-7	D/V		EPA*
Indeno(1,2,3-cd)pyrene	193-39-5	D/V		EPA*
Naphthalene	91-20-3	D/V		EPA*
Phenanthrene	85-01-8	D/V		EPA*
Pyrene	129-00-0	D/V	EPA*	

\* List of "Priority Pollutants" of the EPA



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#### Regulations for oils and lubricants

Regulated ingredients	CAS no.		Limit value	Concentration of the ingredient [mass %]	Remarks
<b>Prohibited ingredients (V)</b>					
Lead and lead compounds	Product group	V	max. 10 ppm		
Chlorine (total chlorine)	Product group	V	max. 10 ppm		
Nitrite		V	max. 10 ppm		
<b>Restricted ingredients (D)</b>					
Barium and barium compounds (calculated as element)		D	0.10%		
other heavy metals (sum calculated as an element), excluding molybdenum and bismuth		D	0.10%		
Boron and boron compounds (calculated as element)		D	3.00%		
Zinc compounds (calculated as element)		D			
Antioxidants based on phenols and amines (sum)		D	1.00%		
Benzotriazole and its derivatives (sum)		D	0.50%		
Aromatics content in test oils		D	10%		
<b>Substances to be declared (type and quantity)</b>					
Total aromatic content		D			
Complexing agents (only those complexing agents that comply with the basic stage requirements of the Chemicals Act for the determination of high biodegradability via the OECD Guideline 301A to 301 E (05/81) and are readily biodegradable are permitted)		D			

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#### Regulations for metallic materials

**The substances listed shall not be present as an intended alloying and accompanying element or as intended accompanying and trace elements in concentrations above the limit values given in the table.**

Regulated ingredients	CAS no.		Limit value [mass % in homogeneous material]	Concentration of the ingredient [mass % in homogeneous material]	Exception made use of? If yes, which?	Identification of the material in which the regulated ingredient is present.
Antimony and its compounds		D	0.25			
Arsenic and its compounds		D	0.04			
Beryllium and its compounds		D	0.1			
Lead and its compounds		D	0.1			
Cadmium and its compounds		D	0.01			
Chromium (VI) compounds		D	0.1			
Cobalt and its compounds in the form of breathable droplets/dusts		D	0.1			
Nickel and its compounds in the form of breathable droplets/dusts		D				
Mercury and its compounds		D	0.1			
Lead in aluminum		D	0.4			

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#### Regulations for manufacturing aids other than cooling lubricants

Regulated ingredients	CAS no.		Limit value	Concentration of the ingredient [mass %]
<b>Prohibited ingredients (V)</b>				
Alkylphenols and their isomers, ethoxylates and esters	Product group	V	10 ppm in aqueous cleaning agents, cooling lubricants, and emulsion cleaners	
Aromatics in dimethylsulfoxide (DMSO), soluble aromatic content of mineral oil products	Product group	V	3 mass % in lubricant base oils	
Azo dyes with carcinogenic amine components	Product group	V	10 ppm in lubricants, dyes	
Lead and its compounds, calculated as the element	Product group	V	10 ppm in lubricants	
Chlorine, releasable, total content, calculated as elementary chlorine	Product group	V	0.1 m% in corrosion inhibitors, aqueous cleaning agents, water-miscible cooling lubricants, and emulsion cleaners	
Halogenated hydrocarbons	Product group	V	1 ppm in corrosion inhibitors, aqueous detergents, cooling lubricants, emulsion cleaners, and hydrocarbon cleaners	
Phenol	108-95-2	V	1 ppm in corrosion inhibitors, aqueous detergents, cooling lubricants, emulsion cleaners, and hydrocarbon cleaners	
Silicone	Product group	V		
Sum of heavy metals	Product group	V	10 ppm in corrosion inhibitors, aqueous detergents, cooling lubricants, emulsion cleaners, and hydrocarbon cleaners. Exemptions for Zn for non-water-miscible cooling lubricants	

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Zinc and its compounds, calculated as the element	Product group	V	10 ppm in corrosion inhibitors and cooling lubricants. Exceptions for water-immiscible cooling lubricants.	
Tricresyl phosphate and isomers (TCP)	1330-78-5	V	10 ppm in corrosion protection agents, emulsion cleaners 0.5% in lubricants and test media	
Tricresyl phosphate (TCP)	78-30-8	V	0.1% in lubricants and test media	
<b>Declarable ingredients (D)</b>				
Antioxidants based on phenols and amines	Product group	D	5% in lubricants and test media	
Biocides	Product group	D	0.1 mass %	
Siloxanes	Product group	D	0.1 mass % in water-miscible cooling lubricants	
Sulphonates (sum)	Product group	D	0.1 mass % in lubricants and test media	
VCI (volatile corrosion inhibitor)	Product group	D	0.1 mass % in corrosion protection agents	
Complexing agents (only those complexing agents that comply with the basic stage requirements of the Chemicals Act for the determination of high biodegradability via the OECD Guideline 301A to 301 E (05/81) and are readily biodegradable are permitted)		D		

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#### Various regulations

Regulated ingredients	CAS no.	Limit value	Examples of occurrences
<b>Prohibited ingredients (V)</b>			
Asbestos, all mineral groups	Product group	Prohibition of use (for the scope of REACH, there is also a prohibition on manufacture and placing on the market)	<ul style="list-style-type: none"> <li>- Thermal insulation</li> <li>- Friction linings</li> <li>- Seals</li> <li>- Building materials</li> </ul>
<ul style="list-style-type: none"> <li>- Aldrin</li> <li>- Chlordane</li> <li>- DDT</li> <li>- Dieldrin</li> <li>- Endrin</li> <li>- Heptachlor</li> <li>- Hexachlorobenzene</li> <li>- Mirex</li> <li>- Polychlorinated biphenyls (PCB)</li> <li>- Toxaphene</li> <li>- Hexachlorocyclohexane, incl. lindane</li> <li>- Chlordecone</li> <li>- Pentchlorobenzene</li> <li>- Hexabromobiphenyl</li> </ul>	<ul style="list-style-type: none"> <li>- 309-00-2</li> <li>- 57-74-9</li> <li>- 50-29-3</li> <li>- 60-57-1</li> <li>- 72-20-8</li> <li>- 76-44-8</li> <li>- 118-74-1</li> <li>- 2385-85-5</li> <li>- 1336-36-3 and others</li> <li>- 8001-35-2</li> <li>- 58-89-9, 319-84-6, 319-85-7, 608-73-1</li> <li>- 143-50-0</li> <li>- 608-93-5</li> <li>- 36355-01-8</li> </ul>	Prohibition of use	
Tetra-, penta-, hexa-, and hepta-bromodiphenyl ethers (BDE)	Product group	Prohibition of use; for exceptions, see regulation	Flame retardants
Perfluorooctane sulfonic acid and derivatives thereof (PFOS)	Product group	Prohibition of use; for exceptions, see regulation	<ul style="list-style-type: none"> <li>- Elastomers</li> <li>- Impregnation of textiles, carpets, and paper</li> <li>- Chrome plating</li> <li>- Photography/lithography</li> <li>- Fire-extinguishing foams</li> <li>- Hydraulic fluids</li> </ul>

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Regulated ingredients	CAS no.	Limit value	Examples of occurrences
<b>Prohibited ingredients (V)</b>			
Radioactive materials	Product group	Via natural background radiation; exception: ionization smoke detector	Impurities in steel
Substances that deplete the ozone layer (e.g., CFCs, halons, CTCs, HCBCs, HCFCs)	Product group	Prohibition of use; for exceptions, see regulation	- Cooling agents - Extinguishing agents - Cleaning agent
Biocides (EU biocides regulation)	Product group	as stipulated in the regulation	Packaging
<b>Declarable ingredients (D)</b>			
3,3',5,5'-tetrabromobisphenol A (TBBPA)	79-94-7	0.1 m%	
N,N'-Di-O-tolylguanidine (DOTG)	97-39-2	0.1 m%	Vulcanization accelerator
Perfluorooctanoic acid (PFOA) and its salts	Product group	0.1 m%	Polymerization aid
Complexing agents (only those complexing agents that comply with the basic stage requirements of the Chemicals Act for the determination of high biodegradability via the OECD Guideline 301A to 301 E (05/81) and are readily biodegradable are permitted)			

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