

REACH List Lotte - Use of SVHC's with information-obligatory concentration in parts and affected products

EU Regulation No 1907/2006 (REACH) - Article 33

Date: 12.12.2023

14. June 2023; 235 substances / substance groups are on the candidate list

In this overview all SVHC's are used in a concentration larger than the permissible limit value in our products. For SVHC's which exceed the limit value, please indicate which SVHC is used in which component (with ID and part name). The limit value refers to the individual part (for printed circuit boards individual components are e.g. the resistors). Concentrations <0.1% (mass percentage) based on the weight of the individual part are subject to information requirements.

Overview of SVHC's according to REACH: <https://echa.europa.eu/candidate-list-table>

Published by ECHA "Guidance on requirements for substances in articles": https://echa.europa.eu/documents/10162/23036412/articles_en.pdf/c2e3f93-8391-4944-88e4-efed5fb5112c

Remark	Size/DN	SVHC	CAS No.	Affected part		Comment
				ID	Part name	
Gas Filters & Ball Valves						
AKT R50B	Manual valves	DN6-50	Lead	7439-92-1	-	Lead in brass alloy (1.6-2.2%)
AKT R160S		DN6-50	no SVHC >0,1%	-	-	-
AKT R160M		DN6-50	no SVHC >0,1%	-	-	-
AKT F160G		DN 25-100	no SVHC >0,1%	-	-	-
AKT F160G1		DN 125-250	no SVHC >0,1%	-	-	-
TAS IA/II50	Thermal equipment trips	DN32-50	no SVHC >0,1%	-	-	-
TAS IA/II50M		DN32-50	no SVHC >0,1%	-	-	-
TAS FL/FL		DN25-150	no SVHC >0,1%	-	-	-
TAS FL/FLM		DN25-150	no SVHC >0,1%	-	-	-
AKT R10TAS	Manual valve with thermal equipment strip	DN15-25	Lead	7439-92-1	-	Lead in brass alloy (1.6-2.5%)
AKT R50TAS		DN32-50	Lead	7439-92-1	-	Lead in brass alloy (1.6-2.2%)
AKT F50TAS		DN25-150	no SVHC >0,1%	-	-	-
ASV R50B	Locking device	All	no SVHC >0,1%	-	-	-
ASV F160G/G1		All	no SVHC >0,1%	-	-	-

Valves & Butterfly valves							
VA(C)S 1 ... 3	Solenoid gas valve	1-3	Lead, Exception 6(c)	7439-92-1	35458780	Erdanschluss VA1-3	Lead in brass alloy (<2,5 - 3,5 %)
VA(C)S 6 ... 9	Solenoid gas valve	6-10	Lead, Exception 6(c)	7439-92-1	35438303	Duesenschraube VG10/15-40/32 L	Lead in brass alloy (<2,5 - 3,5 %)
VAD (G,H,V 1 ... 3); VRH1...3 w/o ssov	ValVario-D,G,H,V-Regulator, VRH w/o ssov	1-3	Lead, Exception 6(c)	7439-92-1	35441010	Duesenschraube VG40-65 L	Lead in brass alloy (<2,5 - 3,5 %)
			Lead, Exception 6(c)	7439-92-1	35451073	Topfdüse 0,3	Lead in brass alloy (0,1 %)
			Lead, Exception 6(c)	7439-92-1	35451074	Topfdüse 0,25 CES CG S 71 o.Z.35451073	Lead in brass alloy (0,1 %)
VBV	Bypass valve	DN8	no SVHC >0,1%	-	-	-	-
VMV	ValVario fine adjusting valve	DN10-50	no SVHC >0,1%	-	-	-	-
VMO	ValVario orifice	DN10-50	no SVHC >0,1%	-	-	-	-
VMF	ValVario filter	DN10-50	no SVHC >0,1%	-	-	-	-
VAN	Solenoid normally open valve	1-2	no SVHC >0,1%	-	-	-	-
VK	Motorized gas valve VK	DN40-250	Lead, Exception 6(c)	7439-92-1	35454016	Justierschraube VK (H)	Lead in brass alloy (<2,5 - 3,5 %)
			Lead, Exception 6(c)	7439-92-1	35454019	Laufbuchse VK	Lead in brass alloy (<2,5 - 3,5 %)
			Lead, Exception 6(c)	7439-92-1	35446695	Oelstandsauge VK EEXO	Lead in brass alloy (<2,5 - 3,5 %)
			Lead, Exception 6(c)	7439-92-1	35446697	Druckring f. Oelst. VK EEXO	Lead in brass alloy (<2,5 - 3,5 %)
			Lead, Exception 6(c)	7439-92-1	34495290	Rolle VK..S	Lead in brass alloy (<2,5 - 3,5 %)
			Lead, Exception 6(c)	7439-92-1	34497080	Lagerbuchse VK..S	Lead in brass alloy (<2,5 - 3,5 %)
			Lead, Exception 6(c)	7439-92-1	34498390	Verbindungsbolzen VK..S	Lead in brass alloy (<2,5 - 3,5 %)
			Lead, Exception 6(c)	7439-92-1	35443729	Buchse Schalterpaket VK..S	Lead in brass alloy (<2,5 - 3,5 %)
			Lead, Exception 6(c)	7439-92-1	74496070	Hubeinsteilspindel VK	Lead in brass alloy (<2,5 - 3,5 %)
			Lead, Exception 6(c)	7439-92-1	75454013	Kolben (Druckschalter) VK	Lead in brass alloy (<2,5 - 3,5 %)
			Lead, Exception 6(c)	7439-92-1	75454021	Verschlusschraube VK	Lead in brass alloy (<2,5 - 3,5 %)
BVG, BVGF	Butterfly valve for gas	DN40-150	no SVHC >0,1%	-	-	-	-
BVA, BVAF	Butterfly valve for air	DN40-150	no SVHC >0,1%	-	-	-	-
BVH, BVHS, BVHR	Butterfly valve for hot air	DN40-100	no SVHC >0,1%	-	-	-	-
Adaptersätze BVx			no SVHC >0,1%	-	-	-	-
IC20	Actuator	---	Lead, Exception 6(c)	7439-92-1	35453410	Schnecke für Nockenscheibe IC	Lead in copper alloy - brass (<3,3%)
IC30	Actuator	---	no SVHC >0,1%	-	-	-	-
IC40	Actuator	---	Lead, Exception 6(c)	7439-92-1	35453410	Schnecke für Nockenscheibe IC	Lead in copper alloy - brass (<3,3%)
IC50	Actuator	---	Lead, Exception 6(c)	7439-92-1	35453410	Schnecke für Nockenscheibe IC	Lead in copper alloy - brass (<3,3%)
Adaptersätze IC 20/40		---	no SVHC >0,1%	-	-	-	-
Adaptersätze IC 30		---	Lead, Exception 6(c)	7439-92-1	35459265	Adapter IC30 zu VFC1-3	Lead in copper alloy - brass (<3,3%)
		---	Lead, Exception 6(c)	7439-92-1	35459365	Adapter IC30 auf BVA/G	Lead in copper alloy - brass (<3,3%)
Adaptersätze IC 50/DKR		---	no SVHC >0,1%	-	-	-	-
MB7	Solenoid actuator for BVHM	---	Lead, Exception 6(c)	7439-92-1	35446159	Einstellmutter MK40-100	Lead in copper alloy - brass (<3,3%)
Befestigungsset MB 7 auf BVHM		---	no SVHC >0,1%	-	-	-	-
BVHM	Butterfly valve for MB 7	DN40-100	no SVHC >0,1%	-	-	-	-
DKR	Butterfly valve for hot air	DN15-500	no SVHC >0,1%	-	-	-	-
VFC	Flow control	1 + 3	no SVHC >0,1%	-	-	-	-

Pressure Switches							
DG..U..B..I	Pressure switches for gas and air	---	Lead, Exception 6(c)	7439-92-1	35447357	ROHRNIET DG	Lead in brass alloy (<2,5 - 3,5 %)
DG..H..N..HAT..NT		---	Lead, Exception 6(c)	7439-92-1	35447357	Betätigungsstift DG H/N	Lead in brass alloy (<2,5 - 3,5 %)
		---	Lead, Exception 6(c)	7439-92-1	35448605	HALTESTIFT DG H/N	Lead in brass alloy (<2,5 - 3,5 %)
		---	Lead, Exception 6(c)	7439-92-1	35447357	ROHRNIET DG	Lead in brass alloy (<2,5 - 3,5 %)
DG..C..VC..VCT..CT..C60VR400... 45.900.438...	Pressure switches for gas and air	---	Lead, Exception 6(c)	7439-92-1	35448796	Einschub Messingbuchse	Lead in brass alloy (<2,5 - 3,5 %)
DL..E..ET..A..AT..K..T..KH..AH..KN..AN	Pressure switches for air	---	no SVHC >0,1%	-	-	-	-

Moduline							
RVS, RV	Control valves	DN32-100	no SVHC >0,1%	-	-	-	-

Tightness Controls							
TC 1	Tightness Control	All	Lead	7439-92-1	68126007	Z-DIODE 27V 5%(SOD80) MINIMELF	-
					68126062	ZMY100-GS08	-
					68126005	DIODE12V5%(SOD80) MINIMELF	-
					04130107	ANSCHLUSSKLEMME 2-POLIG RM5,08	-
					68126006	Z-DIODE 24V 5%(SOD80) MINIMELF	-
					68026020	GLEICHRICHTER 80V-0,5A	-
TC 2	Tightness Control	All	Lead	7439-92-1	68126007	Z-DIODE 27V 5%(SOD80) MINIMELF	-
					68126006	Z-DIODE 24V 5%(SOD80) MINIMELF	-
					04130107	ANSCHLUSSKLEMME 2-POLIG RM5,08	-
					68126005	DIODE12V5%(SOD80) MINIMELF	-
					68126062	ZMY100-GS08	-
					68026020	GLEICHRICHTER 80V-0,5A	-
TC 3	Tightness Control	All	Lead	7439-92-1	34215130	Ventilgehäuse TC3	Lead in aluminium alloy (<0,20 %)
					35442233	Führungsstift VG8	Lead in aluminium alloy (0,2 - 0,6 %)
					35457647	Verschlusschraube-k. G1/4 P	Lead in steel (<0,15 - 0,35 %)
					68126007	Z-DIODE 27V 5%(SOD80) MINIMELF	-
					68126006	Z-DIODE 24V 5%(SOD80) MINIMELF	-
					04130107	ANSCHLUSSKLEMME 2-POLIG RM5,08	-
					68126005	DIODE12V5%(SOD80) MINIMELF	-
					68126062	ZMY100-GS08	-
					68026020	GLEICHRICHTER 80V-0,5A	-
TC 410	Tightness Control 410	All	no SVHC >0,1%	-	-	-	-

Electric Flame Monitoring & Contr. Units							
FCU 500 (OCU/BCM/BCC)+2	Protective system control units	---	Lead	7439-92-1	68126005	DIODE12V5%(SOD80) MINIMELF	-
					68206001	BR.GLEICHRICHTER 1000V/1A DF105 *****	-
					68126029	DIODE S526 DO214AA SCHOTTKY 2A 60V	-
					68126068	ULTRAFAST RECOVERY DIODE ESIC 150V/1A	-
					68012830	MELF-DIODE N15 5532.026-LL 4148!!!!	-
BCU 400 2016	Burner control unit	---	Lead	7439-92-1	68126029	DIODE S526 DO214AA SCHOTTKY 2A 60V	-
					68126068	ULTRAFAST RECOVERY DIODE ESIC 150V/1A	-
					68026020	GLEICHRICHTER 80V-0,5A	-
					68026021	BR.GLEICHRICHTER 1000V/1A (SURGE 50A)	-
					68012830	MELF-DIODE N15 5532.026-LL 4148!!!!	-
					04130102	VERTEILERKLL. RT025160GLUXX 16POL 2X8POL	-
					68126005	DIODE12V5%(SOD80) MINIMELF	-
BCU 560 / 565 /580		---	Lead	7439-92-1	68126005	DIODE12V5%(SOD80) MINIMELF	-
					68126068	ULTRAFAST RECOVERY DIODE ESIC 150V/1A	-
					68012830	MELF-DIODE N15 5532.026-LL 4148!!!!	-
					68206001	BR.GLEICHRICHTER 1000V/1A DF105 *****	-
					68126029	DIODE S526 DO214AA SCHOTTKY 2A 60V	-
PFU 760 / 780	Burner control unit	---	Lead	7439-92-1	04130157	SMKDSP 1,5/ 2-5,08 BD:10-11	-
					68126062	ZMY100-GS08	-
					68206001	BR.GLEICHRICHTER 1000V/1A DF105 *****	-
					68126005	DIODE12V5%(SOD80) MINIMELF	-
					68126004	Z-DIODE 11V 5%(SOD80) MINIMELF	-
					68126002	Z-DIODE 18V 5%(SOD80) MINIMELF	-
					04130159	SMKDSP 1,5/ 8-5,08 BD:12-19	-
					04130160	SMKDSP 1,5/ 9-5,08 BD:1-9	-
PFR 704	Relay module	---	Lead	7439-92-1	04130161	SMKDSP 1,5/ 2-5,08 BD:10-11	-
					04130162	SMKDSP 1,5/ 8-5,08 BD:12-19	-
					04130163	SMKDSP 1,5/ 9-5,08 BD:1-9	-
PFP 700	Power supply	---	Lead	7439-92-1	04130164	SMKDSP 1,5/ 2-5,08 BD:10-11	-
					04130165	SMKDSP 1,5/ 8-5,08 BD:12-19	-
					04130166	SMKDSP 1,5/ 9-5,08 BD:1-9	-
PFA 700 / 710	Fieldbus interface	---	Lead	7439-92-1	04130167	SMKDSP 1,5/ 8-5,08 BD:1-8	-
					04130168	SMKDS 3/12-5,08 BD:11-22	-
					04130169	SMKDSP 1,5/ 2-5,08 BD:10-11	-
					04130170	SMKDSP 1,5/ 8-5,08 BD:12-19	-
					04130171	SMKDSP 1,5/ 9-5,08 BD:1-9	-
					04130172	ZMY100-GS08	-
					04130173	GLEICHRICHTER 80V-0,5A	-

					04130174	IC-FASSUNG 20POL RM 2,54 BAUHÖHE 10,2	-
					04130175	Z-DIODE 10V 5% (SOD80) MINIMELF	-
					04130176	Z-DIODE 27V 5% (SOD80) MINIMELF	-
MPT 700	Impulse system	---	Lead	7439-92-1	04130177	SMKDSP 1,5/ 8-5,08 BD:15-22	-
					04130178	MKKDSG 3/ 7 BD:1-14	-
					04130179	SMKDSP 1,5/12-5,08 BD:1-12	-
					04130444	SMKDSP 1,5/12-5,08 BD:13-24	-
BCU 370 (OCU/BCM/BCC)⁻²	Burner control unit	---	Lead	7439-92-1	68206001	BR.GLEICHRICHTER 1000V/1A DF105 *****	-
					68026020	GLEICHRICHTER 80V-0,5A	-
					68126002	Z-DIODE 18V 5% (SOD80) MINIMELF	-
					68126004	Z-DIODE 11V 5% (SOD80) MINIMELF	-
					04120225	LP-STECKVERB. SERIE 5RS 16FK BEDR. 1-16	-
					04120226	LP-STECKVERB. SERIE 5RS 16FK BEDR.17-32	-
					35454945	MKDS 1/ 4-3,5 BD-B, A, B, A	-
					68018210	Z-DIODE 10V 5% (SOD80) MINIMELF	-
BCU 570 (OCU/BCM/BCC)⁻²	Burner control unit	---	Lead	7439-92-1	68126005	DIODE12V5%(SOD80) MINIMELF	-
					68206001	BR.GLEICHRICHTER 1000V/1A DF105 *****	-
					68126029	DIODE S526 DO214AA SCHOTTKY 2A 60V	-
					68126068	ULTRAFAST RECOVERY DIODE ESIC 150V/1A	-
					68012830	MELF-DIODE N15 S532.026-LL 4148!!!!	-
IFD/IFS/IFW	Burner control unit	---	Lead	7439-92-1	68126062	ZMY100-GS08	IFD258, IFD244
					35445916	MVSTBU 2,5/13-STF SO BD:1-13	IFD450/454
					35445917	MVSTBU 2,5/13-STF SOB:14-26	IFD450/454
					04012102	DIODE GP10Y, 1A 1600V	IFW15, IFS132, IFS137, IFS135, IFS254
					04120186	LP-STECKVERBINDER SERIE 5 RS 9-POLIG	IFX244, IFD258W
					04120188	LP-STECKVERBINDER SERIE 5 RS 14-POLIG	IFX258, IFX244, IFS244, IF258W
					68126002	Z-DIODE 18V 5% (SOD80) MINIMELF	IFS258, IFS244
					68126004	Z-DIODE 11V 5% (SOD80) MINIMELF	IFS258, IFS244
					68126005	DIODE12V5%(SOD80) MINIMELF	IFS13x
					68126006	Z-DIODE 24V 5% (SOD80) MINIMELF	IFD258, IFD244
					68126007	Z-DIODE 27V 5% (SOD80) MINIMELF	IFS13x
					68017720	Z-DIODE 5,6V 5% (SOD80) MINIMELF	IFS13x
					68017730	Z-DIODE 30V 5% (SOD80) MINIMELF	IFS258, IFS244
					68018210	Z-DIODE 10V 5% (SOD80) MINIMELF	IFS258
					68206001	BR.GLEICHRICHTER 1000V/1A DF105 *****	IFS11x, IFD45x
					68026020	GLEICHRICHTER 80V-0,5A	IFD258, IFD244, IFW50