

BECKHOFFProduct Substance Compliance
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Substance-compliance@Beckhoff.com**Customer information on REACH Regulation (1907/2006/EU) and duty to communicate information on substances in articles (Art. 33)**

23 September 2020

Information about registration according to the REACH Regulation

The European REACH Regulation (EC) No 1907/2006 deals with the Registration, Evaluation, Authorisation and restriction of Chemicals with the aim of achieving a high level of protection for human health and the environment from risks, which may arise from chemicals. The duty of registration and evaluation of chemicals applies to all manufacturers and importers of substances and substances in mixtures, who place more than a tonne per annum of a substances on the market in the European Union. Beckhoff Automation GmbH & Co. KG is a manufacturer of automation products. Within the meaning of the REACH Regulation, these products are articles and are not subject to registration.

Duty to communicate information on substances in articles

According to article 33 of the REACH Regulation, a duty to communicate information along the supply chain applies to “*substances of very high concern*” (SVHC) if these are present in an article with a concentration above 0.1% (w/w).

SVHC meeting the criteria set out in Art. 57 are published in the so-called candidate list by the European Chemicals Agency (ECHA). The last amendment took place on 25th June 2020. At present, the list contains 209 substances and is available on the ECHA’s website: <https://echa.europa.eu/web/guest/candidate-list-table>

The publication of the candidate list does not yet entail a duty of authorisation. A duty of authorisation only applies when a substance is included in Annex XIV of the REACH Regulation.

Beckhoff Automation is in active communication with its suppliers and has received confirmation that duties resulting from the REACH regulation have been understood and are obeyed. Information regarding SVHC in Beckhoff Automation products is included in the enclosure of this customer information. The update of the candidate list from 27 June 2018 included metallic lead (CAS: 7439-92-1) as a SVHC on the candidate list. All products of Beckhoff Automation GmbH & Co. KG, such as Industrial PCs, Fieldbus Components as well as Drive and Motion Technology, comply with the European RoHS Directive 2011/65/EU on the restriction of use of certain hazardous substances in

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electrical and electronic equipment. In the following, we refer to the exemptions according to Annex III of the RoHS Directive for the concentration of metallic lead in homogenous materials, which apply to articles manufactured by Beckhoff Automation. Following RoHS- Exemptions are definite referable to metallic lead (CAS: 7439-92-1):

- 6a: Lead as an alloying element in steel for machining purposes and in galvanised steel containing up to 0,35 % lead (w/w)
- 6b: Lead as an alloying element in aluminium containing up to 0,4 % lead (w/w)
- 6c: Copper alloy containing up to 4 % lead (w/w)

Lead (CAS: 7439-92-1) is solely used in applications that are declared as exceptions in the RoHS Directive 2011/65/EU and do not impact the safe use of the products. Under normal or reasonably foreseeable conditions of use, no substances are released from Beckhoff Automation products. Information on SVHC in our products as well as the application of RoHS exemptions referring to Lead according to Annex III is listed in the enclosure of this customer information.

In addition, we confirm that Beckhoff Automation products comply with the conditions of restrictions specified in Annex XVII of the REACH Regulation.

We have given the present information to the best of our knowledge and belief based on information received by our suppliers. This information corresponds to the current best available technology and our supplier's technical documentation.

Beckhoff Automation
Product Substance Compliance

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Enclosure: Declared use of SVHC and applicable exemptions for metallic lead (CAS 7439-92-1) according to Annex III of the RoHS Directive for components, which are used in Beckhoff Automation products.

IPC / Embedded PC

Product	Description	SVHC	ROHS-Exemption related to metallic lead (CAS: 7439-92-1)
CPxxxx	Panel PCs	Lead (CAS: 7439-92-1)	6a, 6b, 6c
Cxxxx	Control Cabinet PCs	Lead (CAS: 7439-92-1)	6a, 6b, 6c
Accessories IPC			
C9900-Axxx	Plug-in card or printed circuit board	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (CAS: 552-30-7)	-
		4,4'-isopropylidenediphenol (CAS-Nr. 80-05-7)	
C9900-Bxxx	Motherboard	-	-
C9900-Cxxx	CPU	-	-
C9900-Dxxx	CD/DVD drive	-	-
C9900-Exxx	Interface or extension	-	-
C9900-Fxxx	Front panel, front laminate oder logo	-	--
C9900-Gxxx	Push-button extension for built-in CP2xxx multi-touch panels	-	-
C9900-Hxxx	HDD, SSD, CF, CFast, micro SD	-	-
C9900-L1xx	Licence-Key-USB-Stick for TwinCAT 3.1	-	-
C9900-Kxxx	Cable and connector	-	-
C9900-Mxxx	Mechanical extension or housing part	Lead (CAS: 7439-92-1)	6a, 6b, 6c
C9900-Pxxx	Power supply unit	-	-
C9900-Rxxx	RAM memory	-	-
C9900-Txxx	Touchscreen or touch accessories	-	-
C9900-Uxxx	Battery pack with UPS (uninterruptible power supply)	Lead (CAS: 7439-92-1)	Directive 2006/66 EC applicable
C9900-Zxxx	Keyboard, button, cap, light, mouse, label or cooling fan	Lead (CAS: 7439-92-1)	6a
Accessories for DIN rail-mounting			
CU8005	USB 2.0 hub	Lead (CAS: 7439-92-1)	6c
CU8006	4-port USB 3.0 hub	Lead (CAS: 7439-92-1)	6c
CU8800, CU8850	USB 1.0 extension	Lead (CAS: 7439-92-1)	6c
CU8801, CU8851	USB 2.0 extension	Lead (CAS: 7439-92-1)	6c
		Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (CAS: 552-30-7)	

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CU8802	CP-Link 4 extension	Lead (CAS: 7439-92-1)	6c
		Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (CAS: 552-30-7)	
CU8810, CU8815	DVI splitter	Lead (CAS: 7439-92-1)	6c
CU8851	CU8851-0000 USB Extender Rx for CU8801	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (CAS: 552-30-7)	
CU8870	USB CF slot	Lead (CAS: 7439-92-1)	6c
CU8871	USB CFast slot	Lead (CAS: 7439-92-1)	6c
CU8880	USB-to-LAN adapter	Lead (CAS: 7439-92-1)	6c
Embedded PC CXxxxx			
CX80xx		Lead (CAS: 7439-92-1)	6c
CX81xx		Lead (CAS: 7439-92-1)	6c
CX9000, CX9010, CX9020		Lead (CAS: 7439-92-1)	6c
CX1010, CX1020, CX1030		Lead (CAS: 7439-92-1)	6c
CX1000, CX 1001		Lead (CAS: 7439-92-1)	6c
CX50xx		Lead (CAS: 7439-92-1)	6c
CX51xx		Lead (CAS: 7439-92-1)	6c
CX20xx		Lead (CAS: 7439-92-1)	6c
Accessories Embedded PC			
CX1900	System accessories	Lead (CAS: 7439-92-1)	6c
CX2900	System accessories CX2900	Lead (CAS: 7439-92-1)	6c
CX2900-0192	Battery pack	Lead (CAS: 7439-92-1)	Directive 2006/66/EC
Power supply unit and I/O interfaces			
CX1010/CX1020		Lead (CAS: 7439-92-1)	6c
CX1030		Lead (CAS: 7439-92-1)	6c
CX1100-000x	Power Supply	Lead (CAS: 7439-92-1)	6c
CX2100-0xxx	Power Supply	Lead (CAS: 7439-92-1)	6c
CX1100-09X0	UPS module	Lead (CAS: 7439-92-1)	6c
Master fieldbus connections			
CX1500-M200	Lightbus master fieldbus connection	Lead (CAS: 7439-92-1)	6c
CX1500-M310	PROFIBUS master fieldbus connection	Lead (CAS: 7439-92-1)	6c
CX1500-M510	CANopen master fieldbus connection	Lead (CAS: 7439-92-1)	6c
CX1500-M520	DeviceNet master fieldbus connection	Lead (CAS: 7439-92-1)	6c
Fieldbus slaves			
CX1500-B200	Lightbus slave fieldbus connection	Lead (CAS: 7439-92-1)	6c
CX1500-B310	PROFIBUS slave fieldbus connection	Lead (CAS: 7439-92-1)	6c

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CX1500-B510	CANopen slave fieldbus connection	Lead (CAS: 7439-92-1)	6c
CX1500-B520	DeviceNet slave fieldbus connection	Lead (CAS: 7439-92-1)	6c
System modules for CX2000			
CX2500-0020	Audio Interface	Lead (CAS: 7439-92-1)	6c
CX2500-0030	RS232 Interface	Lead (CAS: 7439-92-1)	6c
CX2500-0031	RS422/485 Interface	Lead (CAS: 7439-92-1)	6c
CX2500-0060	Dual GBit Ethernet Interface	Lead (CAS: 7439-92-1)	6c
CX2500-0061	PoE module	Lead (CAS: 7439-92-1)	6c
CX2005-0070	USB Interface	Lead (CAS: 7439-92-1)	6c
Extension modules for CX2000			
CX2550-0010	C Fast slot	Lead (CAS: 7439-92-1)	6c
CX2550-0020	2½ -inch slot	Lead (CAS: 7439-92-1)	6c
		Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (CAS: 552-30-7)	
CX2500-Mxxx Master fieldbus modules			
CX2500-M310	Profibus	Lead (CAS: 7439-92-1)	6c
CX2500-M510	CANopen	Lead (CAS: 7439-92-1)	6c
CX2500-Bxxx Slave fieldbus modules			
CX2500-B310	Profibus	Lead (CAS: 7439-92-1)	6c
CX2500-B510	CANopen	Lead (CAS: 7439-92-1)	6c
CX2550-0x79 System modules USB extension for CX2000			
CX2500-0179	USB Extended 1.1	Lead (CAS: 7439-92-1)	6c
CX2550-0279	USB Extended 2.0	Lead (CAS: 7439-92-1)	6c

I/O Products

Product	Description	SVHC	ROHS-Exemption related to metallic lead (CAS: 7439-92-1)
BCxxxx	Bus Terminal Controllers (K-bus)	Lead (CAS: 7439-92-1)	6c
BKxxxx	Bus Coupler for Bus Terminals (K-bus)	Lead (CAS: 7439-92-1)	6c
BXxxxx	Bus Terminal Controllers extended (K-bus) with SSB	Lead (CAS: 7439-92-1)	6c
BGxxxx	Bus system housings (empty)	Lead (CAS: 7439-92-1)	6a
CUxxxx	Ethernet switches, USB hubs	Lead (CAS: 7439-92-1)	6c
EJxxxx	EtherCAT plug-in modules	Lead (CAS: 7439-92-1)	6c
EKxxxx	EtherCAT Couplers	Lead (CAS: 7439-92-1)	6c
ELxxxx	EtherCAT Terminals in L-housing	Lead (CAS: 7439-92-1)	6c
ELMxxxx	EtherCAT Terminals (E-bus), metal housing	Lead (CAS: 7439-92-1)	6c
ELXxxx	EtherCAT Terminals for explosion protection	Lead (CAS: 7439-92-1)	6c
EMxxxx	EtherCAT modules (E-bus), various housings	Lead (CAS: 7439-92-1)	6c
EPxxxx	EtherCAT Box modules, IP67, plastic housing, compact box	Lead (CAS: 7439-92-1)	6c
EPIxxxx	EtherCAT Box modules, IP67, plastic housing, IO-Link	Lead (CAS: 7439-92-1)	6c

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EPPxxxx	EtherCAT Box modules, IP67, plastic housing, EtherCAT P	Lead (CAS: 7439-92-1)	6c
EQxxxx	EtherCAT Box modules, IP67, stainless steel housing	Lead (CAS: 7439-92-1)	6c
ERxxxx	EtherCAT box modules, IP67, zinc die-cast housing	Lead (CAS: 7439-92-1)	6c
ERlxxxx	EtherCAT Box modules, IP67, zinc die-cast housing, IO-Link	Lead (CAS: 7439-92-1)	6c
ESxxxx	EtherCAT Terminals in S-housing (standing wiring)	Lead (CAS: 7439-92-1)	6c
ETxxxx-xxxx	EtherCAT technology products (ASIC, licences, etc.)	-	-
FBxxxx	Fieldbus postage stamps	Lead (CAS: 7439-92-1)	6c
FCxxxx	Fieldbus cards (master and/or slave)	Lead (CAS: 7439-92-1)	6c
FMxxxx-Bxxx-xxxx	Fieldbus modules	Lead (CAS: 7439-92-1)	6c
IExxxx	Fieldbus Box modules, IP67, Extension Box	Lead (CAS: 7439-92-1)	6c
ILxxxx-Bxxx	Fieldbus Box modules, IP67, PLC Box (controller)	Lead (CAS: 7439-92-1)	6c
ILxxxx-Cxxx	Fieldbus Box modules, IP67, Compact Box	Lead (CAS: 7439-92-1)	6c
IPxxxx-Bxxx	Fieldbus Box modules, IP67, Compact Box	Lead (CAS: 7439-92-1)	6c
KLxxxx	Bus Terminals (K-bus) in L-housing	Lead (CAS: 7439-92-1)	6c
KMxxxx	Terminal modules (K-bus)	Lead (CAS: 7439-92-1)	6c
KSxxxx	Bus Terminals (K-bus) in S-housing (standing wiring)	Lead (CAS: 7439-92-1)	6c
LCxxxx	Low-cost Bus Coupler for Bus Terminals (K-bus)	Lead (CAS: 7439-92-1)	6c
M1xxx-xxx	Lightbus M-modules	Lead (CAS: 7439-92-1)	6c
Accessories I/O			
ZBxxxx	Connectors, cables, torque wrench, relais, fan cartridge, shielding connection system, external ballast resistor and further accessories	Lead (CAS: 7439-92-1)	6c
ZB3300	PROFIBUS cable, 12 Mbaud, 2 x 0.25; 3 x 0.75 mm ² , 5-wire, drag-chain suitable	Declorane Plus	
		Lead (CAS: 7439-92-1)	6c
Zxxxx	Connectors, cables and further accessories	Lead (CAS: 7439-92-1)	6c
Z1103	IP-Link Hi-Flex cable with UL	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol CAS: 25973-55-1 < 0.5%	
		Lead (CAS: 7439-92-1)	6c
BZxxxx	Contact Labels	-	-
ZKxxxx-xxxx-xxxx	Pre-assembled cables	Lead (CAS: 7439-92-1)	6a, 6c
ZK1010	Ribbon cable	-	-
ZK1020	IP-Link cable	Lead (CAS: 7439-92-1)	6c
ZK1031	PROFIBUS cable	Lead (CAS: 7439-92-1)	6c
ZK1052	DeviceNet cable	Lead (CAS: 7439-92-1)	6c
ZK1090	Ethernet/K-bus extension	Lead (CAS: 7439-92-1)	6c
ZK2000	Sensor/actuator cable	Lead (CAS: 7439-92-1)	6c
ZK2020	Power cable	Lead (CAS: 7439-92-1)	6c

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ZK2030	Power cable 1.5 mm ²	Lead (CAS: 7439-92-1)	6c
ZK2031	Power cable 2.5 mm ²	Lead (CAS: 7439-92-1)	6c
ZK700x	EtherCAT P cable	Lead (CAS: 7439-92-1)	6c
ZK71xx	ECP/ENP cable	Lead (CAS: 7439-92-1)	6a, 6c
ZK72xx	ECP/ENP cable	Lead (CAS: 7439-92-1)	6a, 6c
ZK73xx	ECP/ENP cable	Lead (CAS: 7439-92-1)	6a, 6c
ZSxxx-xxxx	Connectors and accessories	Lead (CAS: 7439-92-1)	6a, 6c
Power Supplies			
PS1xxx-xxxx-xxxx	Power Supplies	-	-
PS1111-2402-0002	Power Supplies	Lead (CAS: 7439-92-1)	7a, 7cII
PS2xxx-xxxx-xxxx	Power Supplies	-	-
PS2001-4810-0000	Power Supplies	Lead (CAS: 7439-92-1)	6c, 7a, 7cII
PS3xxx-xxxx-xxxx	Power Supplies	-	-

Drive Technology

Product	Description	SVHC	ROHS-Exemption related to metallic lead (CAS: 7439-92-1)
AX8xxx-xxxx	Digital Compact Servo Drive	Lead (CAS: 7439-92-1)	6c
AX5xxx-xxxx	Digital Compact Servo Drive	Lead (CAS: 7439-92-1)	6c
AX2xxx-xxxx	Digital Compact Servo Drive	Lead (CAS: 7439-92-1)	6c
Accessories Drive Technology			
ZS4800-xxxx	Plugs for AX8000 Servo Drives	Lead (CAS: 7439-92-1)	6a, 6c
ZS4500-xxxx	Plugs for AX5000 Servo Drives	Lead (CAS: 7439-92-1)	6a, 6c
ZK1090-9191-xxxx	EtherCAT patch cables	Lead (CAS: 7439-92-1)	6a, 6c
AX2090-NFxx-xxxx	Mains filters for AX5000 Servo Drives	Lead (CAS: 7439-92-1)	6c
AX2090-SBxx-xxxx	EMC accessories Shroud for AX5000 (from 60 A)	-	-
AX2090-NDxx-xxxx	Mains chokes für AX5000 Servo Drives	Lead (CAS: 7439-92-1)	6c
AX2090-TSxx-xxxx	Transient voltage suppressor for AX5000 Servo Drives	Lead (CAS: 7439-92-1)	6c
AX2090-BWxx-xxxx	External ballast resistors for Servo Drives	Lead (CAS: 7439-92-1)	6c
AX2090-MDxx-xxxx	Motor choke for Servo Drives	Lead (CAS: 7439-92-1)	6c
AX2090-L025	Fan unit for AX2500 Servo Drives	Lead (CAS: 7439-92-1)	6a, 6b, 6c
Synchronous Servomotors			
AM2xxx-xxxx-xxxx	Synchronous Servomotors	Lead (CAS: 7439-92-1)	6b, 6c
AM3xxx-xxxx-xxxx	Synchronous Servomotors	Lead (CAS: 7439-92-1)	6b, 6c
AM8xxx-xxxx-xxxx	Synchronous Servomotors	Lead (CAS: 7439-92-1)	6b, 6c
AL2xxx-xxxx-xxxx	Linear Servomotors	Lead (CAS: 7439-92-1)	6b, 6c
AL3xxx-xxxx-xxxx	Linear Servomotors	Lead (CAS: 7439-92-1)	6b, 6c
AS1xxx-xxxx	Stepper motors	Lead (CAS: 7439-92-1)	6b, 6c
AS2xxx-xxxx	Stepper motors	Lead (CAS: 7439-92-1)	6b, 6c
Accessories for Linear Servomotors			
AL2250-000x	Connector box for Linear Servomotors	Lead (CAS: 7439-92-1)	6c
AL2200-xxxx	MES feedback system for Linear Servomotors	Lead (CAS: 7439-92-1)	6c
AL21xx-xxxx	Magnetic assembly for AL20xx Linear Servomotors	Lead (CAS: 7439-92-1)	6c

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Product	Description	SVHC	ROHS-Exemption related to metallic lead (CAS: 7439-92-1)
AL25xx-xxxx	Magnetic assembly for AL24xx Linear Servomotors	Lead (CAS: 7439-92-1)	6c
AL29xx-xxxx	Magnetic assembly for AL28xx Linear Servomotors	Lead (CAS: 7439-92-1)	6c
AL39xx-xxxx	Magnetic assembly for AL38xx Linear Servomotors	Lead (CAS: 7439-92-1)	6c
Planetary Gears AGxxxx			
AGxxxx	Planetary gear units	Lead (CAS: 7439-92-1)	6a, 6c
AA1121-xxxx	Linear actuator	Lead (CAS: 7439-92-1)	6c

XTS – eXtended Transport System

Product	Description	SVHC	ROHS-Exemption related to metallic lead (CAS: 7439-92-1)
XTS Standard			
AT2xxx-xxxx	XTS motor module	Lead (CAS: 7439-92-1)	6a, 6c
AT9xxx-yyyy	XTS guide rails	-	-
AT9001-x550-yyyy	Magnetic plate set "mover / mover 1 standard", 5 pole structure, length 50mm, preinstalled with various encoder flags in thicknesses from 1.2mm to 1.8mm, suitable for external movers	-	-
ZXxxxx-yyyy	XZS rollers & accessories	Lead (CAS: 7439-92-1)	6a, 6c
XTS Black Line			
AT20xx-yyyy-0002	XTS motor modules	Lead (CAS: 7439-92-1)	6a, 6c
AT9xxx-yyyy-0002	XTS guide rails	-	-
ZXxxxx-yyyy-0002	XTS rollers & accessories	Lead (CAS: 7439-92-1)	6a, 6c
XTS Hygienic			
ATH20xx-yyyy	XTS motor modules in stainless steel	Lead (CAS: 7439-92-1)	6c
ATH9xxx-yyyy	XTS guide rails in stainless steel	-	-
ZXHxxxx-yyyy	XTS rollers & accessories	-	-

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