

有关有害物质和环保使用期限的标识信息：

“电子电气产品有害物质限制使用标识要求(SJ/T 11364-2014)”

Siemens AG




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基于以下标准产品的适用于极端环境下的 **SIPLUS extreme** 系列
SIMATIC/PCS7/SITOP/SIMOCODE/AS-Interface/Scalance/OLM/SINAUT/SINAMICS/SIMOTION
(6AG1..., 6AG2...):

|  SIPLUS extreme (不带HMI) | 有害物质 | | | | | |
|---|--------|--------|--------|---------------|------------|--------------|
| | 铅 (Pb) | 汞 (Hg) | 镉 (Cd) | 六价铬化合物 (CrVI) | 多溴联苯 (PBB) | 多溴二苯醚 (PBDE) |
| 机械装配 (塑料部件) | ○ | ○ | ○ | ○ | ○ | ○ |
| 机械装配 (金属部件 - 不带连接器) | ○ | ○ | ○ | ○ | ○ | ○ |
| 装配的印刷电路板 (APCB)* | X | ○ | ○ | ○ | ○ | ○ |
|  特例 | | | | | | |
| 电缆 (包括光纤电缆) | X | ○ | ○ | ○ | ○ | ○ |
| 缓存电池 | ○ | ○ | ○ | ○ | ○ | ○ |
| 风扇 | X | ○ | ○ | ○ | ○ | ○ |
| 连接器 和端子块 | X | ○ | ○ | ○ | ○ | ○ |
|  特例 | | | | | | |
| 以下产品中的液晶显示器 - S7-1500 CPU - LOGO! Base Modules - SINAMICS BOP | X | ○ | ○ | ○ | ○ | ○ |


* 如果在特定环保使用期限后更换部件，则满足长达 50 年的标准环保使用期限

基于 **SIMATIC HMI** 的 **SIPLUS extreme**
(6AG11..., 6AG15..., 6AG16..., 6AG26...):

|  SIPLUS extreme HMI | 有害物质 | | | | | |
|--|--------|--------|--------|---------------|------------|--------------|
| | 铅 (Pb) | 汞 (Hg) | 镉 (Cd) | 六价铬化合物 (CrVI) | 多溴联苯 (PBB) | 多溴二苯醚 (PBDE) |
| 机械装配 (塑料部件) | ○ | ○ | ○ | ○ | ○ | ○ |
| 机械装配 (金属部件-不带连接器) | ○ | ○ | ○ | ○ | ○ | ○ |
| 装配的印刷电路板 (APCB) | X | ○ | ○ | ○ | ○ | ○ |
| 液晶显示屏 | X | X | ○ | ○ | ○ | ○ |
| 电缆 | X | ○ | ○ | ○ | ○ | ○ |

| | | | | | | |
|---|----------|---|---|---|---|---|
| 特例 | | | | | | |
| 金属外壳 (仅限HMI精智) | X | ○ | ○ | ○ | ○ | ○ |
|  | | | | | | |
| 特例 | | | | | | |
| 不带液晶显示屏的 HMI (仅限 HMI 按钮式 面板) | X | ○ | ○ | ○ | ○ | ○ |

**SIDOOR 自动门控系统
(6FB11..., 6FB12...)
(WKF:FAA24350B..., WKF:FAA717G1...)**

|  | 有害物质 | | | | | |
|--|----------|--------|--------|------------------|---------------|-----------------|
| | 铅 (Pb) | 汞 (Hg) | 镉 (Cd) | 六价铬化合物 (CrVI) | 多溴联苯 (PBB) | 多溴二苯醚 (PBDE) |
| 塑料外壳 | ○ | ○ | ○ | ○ | ○ | ○ |
| 装配的印刷电路板 (APCB) | X | ○ | ○ | ○ | ○ | ○ |
| 机械装配 | ○ | ○ | ○ | ○ | ○ | ○ |
| 电缆组 | X | ○ | ○ | ○ | ○ | ○ |
| 印刷电路 (AT400 MDLW) | X | ○ | ○ | ○ | ○ | ○ |
| 金属外壳 (AT12; AT EB; AT400 MDLW; AT400R 120VDC) | ○ | ○ | ○ | ○ | ○ | ○ |

**CMS1000 (6AT8001...),
CMS2000 (6AT8002...),
CMS1200 (6AT8007...),
CMS4000 (6AT8000...)**

|  | 有害物质 | | | | | |
|---|----------|--------|--------|------------------|---------------|-----------------|
| | 铅 (Pb) | 汞 (Hg) | 镉 (Cd) | 六价铬化合物 (CrVI) | 多溴联苯 (PBB) | 多溴二苯醚 (PBDE) |
| 塑料外壳 | ○ | ○ | ○ | ○ | ○ | ○ |
| 装配的印刷电路板 (APCB) | X | ○ | ○ | ○ | ○ | ○ |
| 机械装配 | ○ | ○ | ○ | ○ | ○ | ○ |
| 电池 (CMS2000) | ○ | ○ | ○ | ○ | ○ | ○ |
| 电缆组 | X | ○ | ○ | ○ | ○ | ○ |
| 金属外壳 (CMS4000) | ○ | ○ | ○ | ○ | ○ | ○ |

**HCS4200, HCS4300 加热控制系统
(6BK1900..., 6BK1942..., 6BK1943...)**

|  | 有害物质 | | | | | |
|---|--------|--------|--------|---------------|------------|--------------|
| | 铅 (Pb) | 汞 (Hg) | 镉 (Cd) | 六价铬化合物 (CrVI) | 多溴联苯 (PBB) | 多溴二苯醚 (PBDE) |
| 金属外壳 | ○ | ○ | ○ | ○ | ○ | ○ |
| 装配的印刷电路板 (APCB) | X | ○ | ○ | ○ | ○ | ○ |
| 机械装配 | ○ | ○ | ○ | ○ | ○ | ○ |
| 电缆组 | X | ○ | ○ | ○ | ○ | ○ |

**HCS716I, HCS724I 加热控制系统
(6BK1700..., 6ES7171...)**

|  | 有害物质 | | | | | |
|---|--------|--------|--------|---------------|------------|--------------|
| | 铅 (Pb) | 汞 (Hg) | 镉 (Cd) | 六价铬化合物 (CrVI) | 多溴联苯 (PBB) | 多溴二苯醚 (PBDE) |
| 塑料外壳 | ○ | ○ | ○ | ○ | ○ | ○ |
| 金属外壳 | ○ | ○ | ○ | ○ | ○ | ○ |
| 装配的印刷电路板 (APCB) | X | ○ | ○ | ○ | ○ | ○ |
| 机械装配 | ○ | ○ | ○ | X | ○ | ○ |
| 电缆组 | X | ○ | ○ | ○ | ○ | ○ |

**HCS300I 加热控制系统
(6BK1700...)**

|  | 有害物质 | | | | | |
|---|--------|--------|--------|---------------|------------|--------------|
| | 铅 (Pb) | 汞 (Hg) | 镉 (Cd) | 六价铬化合物 (CrVI) | 多溴联苯 (PBB) | 多溴二苯醚 (PBDE) |
| 塑料外壳 | ○ | ○ | ○ | ○ | ○ | ○ |
| 装配的印刷电路板 (APCB) | X | ○ | ○ | ○ | ○ | ○ |
| 机械装配 | ○ | ○ | ○ | ○ | ○ | ○ |
| 电缆组 | X | ○ | ○ | ○ | ○ | ○ |
| 电流互感器 | ○ | ○ | ○ | ○ | ○ | ○ |

HSKrones 加热控制系统 (6BK1700...)

|  | 有害物质 | | | | | |
|---|--------|--------|--------|---------------|------------|--------------|
| | 铅 (Pb) | 汞 (Hg) | 镉 (Cd) | 六价铬化合物 (CrVI) | 多溴联苯 (PBB) | 多溴二苯醚 (PBDE) |
| 塑料外壳 | ○ | ○ | ○ | ○ | ○ | ○ |
| 装配的印刷电路板 (APCB) | X | ○ | ○ | ○ | ○ | ○ |
| 金属装配 | ○ | ○ | ○ | X | ○ | ○ |
| 电缆组 | X | ○ | ○ | ○ | ○ | ○ |
| 功率继电器 | ○ | ○ | ○ | ○ | ○ | ○ |

HC Sidel, HCS3200 加热控制系统 (6BK1700..., 6BK1932...)

|  | 有害物质 | | | | | |
|--|--------|--------|--------|---------------|------------|--------------|
| | 铅 (Pb) | 汞 (Hg) | 镉 (Cd) | 六价铬化合物 (CrVI) | 多溴联苯 (PBB) | 多溴二苯醚 (PBDE) |
| 金属外壳 | ○ | ○ | ○ | ○ | ○ | ○ |
| 装配的印刷电路板 (APCB) | X | ○ | ○ | ○ | ○ | ○ |
| 金属装配 | ○ | ○ | ○ | X | ○ | ○ |
| 电缆组 | X | ○ | ○ | ○ | ○ | ○ |

LOGO! EIB/LON, LOGO! CMK2000 通讯模块 (6BK1700-0BA...)

|  | 有害物质 | | | | | |
|---|--------|--------|--------|---------------|------------|--------------|
| | 铅 (Pb) | 汞 (Hg) | 镉 (Cd) | 六价铬化合物 (CrVI) | 多溴联苯 (PBB) | 多溴二苯醚 (PBDE) |
| 塑料外壳 | ○ | ○ | ○ | ○ | ○ | ○ |
| 装配的印刷电路板 (APCB) | X | ○ | ○ | ○ | ○ | ○ |
| 金属装配 | ○ | ○ | ○ | ○ | ○ | ○ |

SIMEAS-T 电流变送器 (7KG61...)

|  | 有害物质 | | | | | |
|---|--------|--------|--------|---------------|------------|--------------|
| | 铅 (Pb) | 汞 (Hg) | 镉 (Cd) | 六价铬化合物 (CrVI) | 多溴联苯 (PBB) | 多溴二苯醚 (PBDE) |
| 塑料外壳 | ○ | ○ | ○ | ○ | ○ | ○ |
| 装配的印刷电路板 (APCB) | X | ○ | ○ | ○ | ○ | ○ |
| 机械装配 | ○ | ○ | ○ | ○ | ○ | ○ |

SICLOCK 时间同步 (2XV9450-...)

|  | 有害物质 | | | | | |
|--|--------|--------|--------|---------------|------------|--------------|
| | 铅 (Pb) | 汞 (Hg) | 镉 (Cd) | 六价铬化合物 (CrVI) | 多溴联苯 (PBB) | 多溴二苯醚 (PBDE) |
| 塑料外壳 | ○ | ○ | ○ | ○ | ○ | ○ |
| 装配的印刷电路板 (APCB) | X | ○ | ○ | ○ | ○ | ○ |
| 机械装配 | ○ | ○ | ○ | ○ | ○ | ○ |
| 电缆组 | X | ○ | ○ | ○ | ○ | ○ |
| 金属外壳 | ○ | ○ | ○ | ○ | ○ | ○ |
| 电池 | ○ | ○ | ○ | ○ | ○ | ○ |
|  特例 | | | | | | |
| 液晶显示屏 * TC100/TC400 | X | ○ | ○ | ○ | ○ | ○ |

* 如果在特定环保使用期限后更换部件，则满足长达 50 年的标准环保使用期限

以上表格中的信息基于 SJT 11364 标准。

○: 部件中所有均质材料内所含的有害物质均低于 GB/T 26572 的限值要求。




X: 部件中至少一种均质材料内所含的有害物质高于 GB/T 26572 的限值要求。

(企业可根据实际情况，在此框内对标记“X”进行进一步技术说明。)

Information to Hazardous substances and the Environmental Protection Use Period Marking according to


“Marking for the Restricted Use of Hazardous Substances in Electronic and Electrical Products (SJ/T 11364-2014)”


**SIPLUS extreme based on
SIMATIC/PCS7/SITOP/SIMOCODE/AS-Interface/Scalance/OLM/SINAUT/SINAMICS/SIMOTION
(6AG1..., 6AG2...):**

|  SIPLUS extreme (without HMI) | Hazardous Substances | | | | | |
|---|----------------------|--------------|--------------|------------------------------------|-----------------------------------|---|
| | Lead (Pb) | Mercury (Hg) | Cadmium (Cd) | Chromium VI Compounds (CrVI) | Polybrominated Biphenyls (PBB) | Polybrominated Diphenyl Ethers (PBDE) |
| Mechanical Assembly (plastic parts) | ○ | ○ | ○ | ○ | ○ | ○ |
| Mechanical Assembly (metal parts - without connectors) | ○ | ○ | ○ | ○ | ○ | ○ |
| Assembled printed circuit board (APCB)* | X | ○ | ○ | ○ | ○ | ○ |
|  In case of | | | | | | |
| Cable (including fiber optic cable) | X | ○ | ○ | ○ | ○ | ○ |
| Buffer Battery | ○ | ○ | ○ | ○ | ○ | ○ |
| Fan | X | ○ | ○ | ○ | ○ | ○ |
| Connectors and Terminal Blocks | X | ○ | ○ | ○ | ○ | ○ |
|  In case of | | | | | | |
| LC-Displays of - S7-1500 CPU - LOGO! Base Modules - SINAMICS BOP | X | ○ | ○ | ○ | ○ | ○ |


* The general Environmental Protection Use Period of 50 years is fulfilled if the components are replaced after its specific Environmental Protection Use Period

**SIPLUS extreme based on
SIMATIC HMI
(6AG11..., 6AG15..., 6AG16..., 6AG26...):**


|  SIPLUS extreme HMI | Hazardous Substances | | | | | |
|---|----------------------|--------------|--------------|------------------------------------|-----------------------------------|---|
| | Lead (Pb) | Mercury (Hg) | Cadmium (Cd) | Chromium VI Compounds (CrVI) | Polybrominated Biphenyls (PBB) | Polybrominated Diphenyl Ethers (PBDE) |
| Mechanical Assembly (plastic parts) | ○ | ○ | ○ | ○ | ○ | ○ |
| Mechanical Assembly (metal parts - without connectors) | ○ | ○ | ○ | ○ | ○ | ○ |
| Assembled printed circuit board (APCB) | X | ○ | ○ | ○ | ○ | ○ |
| LC-Display | X | X | ○ | ○ | ○ | ○ |
| Cable | X | ○ | ○ | ○ | ○ | ○ |
| | | | | | | |
| In case of | | | | | | |

| | | | | | | |
|--|---|---|---|---|---|---|
| Metal housing (only HMI Comfort) | X | o | o | o | o | o |
|  In case of HMI without LC-Display (only HMI Push Button Panel) | X | o | o | o | o | o |


SIDOR
(6FB11..., 6FB12...)
(WKF:FAA24350B..., WKF:FAA717G1...)

|  | Hazardous Substances | | | | | |
|---|----------------------|--------------|--------------|---------------------------------|--------------------------------|---------------------------------------|
| | Lead (PB) | Mercury (Hg) | Cadmium (Cd) | Chromium VI, Compounds (Cr(VI)) | Polybrominated Biphenyls (PBB) | Polybrominated Diphenyl Esters (PBDE) |
| Plastic Housing | o | o | o | o | o | o |
| Assembled Printed Circuit Board (APCB) | X | o | o | o | o | o |
| Mechanical Assembly | o | o | o | o | o | o |
| Cable Sets | X | o | o | o | o | o |
| Printed Circuit (AT400 MDLW) | X | o | o | o | o | o |
| Metal Housing (AT12; AT EB; AT400 MDLW; AT400R 120VDC) | o | o | o | o | o | o |


CMS1000 (6AT8001...),
CMS2000 (6AT8002...),
CMS1200 (6AT8007...),
CMS4000 (6AT8000...)

|  | Hazardous Substances | | | | | |
|---|----------------------|--------------|--------------|---------------------------------|--------------------------------|---------------------------------------|
| | Lead (PB) | Mercury (Hg) | Cadmium (Cd) | Chromium VI, Compounds (Cr(VI)) | Polybrominated Biphenyls (PBB) | Polybrominated Diphenyl Esters (PBDE) |
| Plastic Housing | o | o | o | o | o | o |
| Assembled Printed Circuit Board (APCB) | X | o | o | o | o | o |
| Mechanical Assembly | o | o | o | o | o | o |
| Battery (CMS2000) | o | o | o | o | o | o |
| Cable Sets | X | o | o | o | o | o |
| Metal Housing (CMS4000) | o | o | o | o | o | o |


HCS4200, HCS4300
(6BK1900..., 6BK1942..., 6BK1943...)

|  | Hazardous Substances | | | | | |
|---|----------------------|--------------|--------------|---------------------------------|--------------------------------|---------------------------------------|
| | Lead (PB) | Mercury (Hg) | Cadmium (Cd) | Chromium VI, Compounds (Cr(VI)) | Polybrominated Biphenyls (PBB) | Polybrominated Diphenyl Esters (PBDE) |
| Metal Housing | o | o | o | o | o | o |
| Assembled Printed Circuit Board (APCB) | x | o | o | o | o | o |
| Mechanical Assembly | o | o | o | o | o | o |
| Cable Sets | x | o | o | o | o | o |


HCS716I, HCS724I (6BK1700..., 6ES7171...)

|  | Hazardous Substances | | | | | |
|---|----------------------|--------------|--------------|---------------------------------|--------------------------------|---------------------------------------|
| | Lead (PB) | Mercury (Hg) | Cadmium (Cd) | Chromium VI, Compounds (Cr(VI)) | Polybrominated Biphenyls (PBB) | Polybrominated Diphenyl Esters (PBDE) |
| Plastic Housing | o | o | o | o | o | o |
| Metal Housing | o | o | o | o | o | o |
| Assembled Printed Circuit Board (APCB) | x | o | o | o | o | o |
| Mechanical Assembly | o | o | o | x | o | o |
| Cable Sets | x | o | o | o | o | o |


HCS300I (6BK1700...)

|  | Hazardous Substances | | | | | |
|---|----------------------|--------------|--------------|---------------------------------|--------------------------------|---------------------------------------|
| | Lead (PB) | Mercury (Hg) | Cadmium (Cd) | Chromium VI, Compounds (Cr(VI)) | Polybrominated Biphenyls (PBB) | Polybrominated Diphenyl Esters (PBDE) |
| Plastic Housing | o | o | o | o | o | o |
| Assembled Printed Circuit Board (APCB) | x | o | o | o | o | o |
| Mechanical Assembly | o | o | o | o | o | o |
| Cable Sets | x | o | o | o | o | o |
| Current Transformer | o | o | o | o | o | o |


HSKrones (6BK1700...)

|  | Hazardous Substances | | | | | |
|---|----------------------|--------------|--------------|---------------------------------|--------------------------------|--|
| | Lead (Pb) | Mercury (Hg) | Cadmium (Cd) | Chromium VI, Compounds (Cr(VI)) | Polybrominated Biphenyls (PBB) | Polybrominated Diphenyl Esthers (PBDE) |
| Plastic Housing | o | o | o | o | o | o |
| Assembled Printed Circuit Board (APCB) | x | o | o | o | o | o |
| Mechanical Assembly | o | o | o | x | o | o |
| Cable Sets | x | o | o | o | o | o |
| Power Relay | o | o | o | o | o | o |


HC SideI, HCS3200 (6BK1700..., 6BK1932...)

|  | Hazardous Substances | | | | | |
|--|----------------------|--------------|--------------|---------------------------------|--------------------------------|--|
| | Lead (Pb) | Mercury (Hg) | Cadmium (Cd) | Chromium VI, Compounds (Cr(VI)) | Polybrominated Biphenyls (PBB) | Polybrominated Diphenyl Esthers (PBDE) |
| Metal Housing | o | o | o | o | o | o |
| Assembled Printed Circuit Board (APCB) | x | o | o | o | o | o |
| Mechanical Assembly | o | o | o | x | o | o |
| Cable Sets | x | o | o | o | o | o |



LOGO! EIB/LON, LOGO! CMK2000 (6BK1700-0BA...)

|  | Hazardous Substances | | | | | |
|---|----------------------|--------------|--------------|---------------------------------|--------------------------------|--|
| | Lead (Pb) | Mercury (Hg) | Cadmium (Cd) | Chromium VI, Compounds (Cr(VI)) | Polybrominated Biphenyls (PBB) | Polybrominated Diphenyl Esthers (PBDE) |
| Plastic Housing | o | o | o | o | o | o |
| Assembled Printed Circuit Board (APCB) | x | o | o | o | o | o |
| Mechanical Assembly | o | o | o | o | o | o |

SIMEAS-T (7KG61...)

|  | Hazardous Substances | | | | | |
|---|----------------------|--------------|--------------|---------------------------------|--------------------------------|---------------------------------------|
| | Lead (PB) | Mercury (Hg) | Cadmium (Cd) | Chromium VI, Compounds (Cr(VI)) | Polybrominated Biphenyls (PBB) | Polybrominated Diphenyl Esters (PBDE) |
| Plastic Housing | o | o | o | o | o | o |
| Assembled Printed Circuit Board (APCB) | x | o | o | o | o | o |
| Mechanical Assembly | o | o | o | o | o | o |

SICLOCK (2XV9450-...)

|  | Hazardous Substances | | | | | |
|--|----------------------|--------------|--------------|---------------------------------|--------------------------------|---------------------------------------|
| | Lead (PB) | Mercury (Hg) | Cadmium (Cd) | Chromium VI, Compounds (Cr(VI)) | Polybrominated Biphenyls (PBB) | Polybrominated Diphenyl Esters (PBDE) |
| Plastic Housing | o | o | o | o | o | o |
| Assembled Printed Circuit Board (APCB) | x | o | o | o | o | o |
| Mechanical Assembly | o | o | o | o | o | o |
| Cable Sets | x | o | o | o | o | o |
| Metal Housing | o | o | o | o | o | o |
| Battery | o | o | o | o | o | o |
|  in case of | | | | | | |
| LCD-Display *) TC100/TC400 | x | o | o | o | o | o |

* The general Environmental Protection Use Period of 50 years is fulfilled if the components are replaced after its specific Environmental Protection Use Period

These tables are prepared in accordance with the provisions of SJT 11364.

o: Indicates that said hazardous substance contained in all homogeneous materials for this part is below the limit requirement of GB/T 26572.

x: Indicates that said hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB/T 26572.

(Enterprises may further provide in this box technical explanation for marking "X" based on their actual circumstances.)