Statement on Hazardous Substances and Safe Use Period Marking

according to

SJ/T 11364-2014 “Marking for the restriction of the use of hazardous substances in electrical and electronic product”

This document is relevant for ABB’s PLC products manufactured after July 2016 as listed on following pages

ppa. Gernot Gaub
Factory Manager
PLC Automation
BU Control Technologies
Industrial Automation Division

i.V. Alexander Wachter
Head of Quality and Operational Excellence
PLC Automation
BU Control Technologies
Industrial Automation Division
AC500 Series

CPUs:

PM571
PM571-ETH
PM572
PM573-ETH
PM590
PM590-ARCNET
PM590-ETH
PM591
PM591-2ETH
PM591-ARCNET
PM591-ETH
PM592-ETH
PM595-4ETH-F
EC581-ARCNET
EC583-ETH
PM581
PM581-ARCNET
PM581-ETH
PM582
PM582-ARCNET
PM582-ETH
PM583-ETH
PM5650-2ETH
## Terminal Bases:

T8511-ARCNET  
T8511-ETH  
T8521-ARCNET  
T8521-ETH  
T8541-ETH

<table>
<thead>
<tr>
<th>Component name</th>
<th>Hazardous substance</th>
<th>Lead (Pb)</th>
<th>Mercury (Hg)</th>
<th>Cadmium (Cd)</th>
<th>Hexavalent chromium (Cr6)</th>
<th>Polybrominated Biphenyl (PBB)</th>
<th>Polybrominated Diphenyl ethers (PBDE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical component (plastic)</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Mechanical component (metal)</td>
<td>X</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>PCBA</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
</tbody>
</table>

This table was developed according to the provisions of SJ/T 11364.  
O: The content of such hazardous substance in all homogeneous materials of such component is below the limit required by GB/T 26572  
X: The content of such hazardous substance in a certain homogeneous material of such component is beyond the limit required by GB/T 26572

## Terminal Bases:

TF501  
TF521  
T8523-2ETH  
T85620-2ETH
Communication Modules:

CM572-D³
CM574-RCOM
CM574-RS
CM575-DV
CM577-ETH
CM578-CN
CM579-ETHCAT
CM579-PNIO
CM588-CN
CM597-ETH

Communication Interface Modules:

CI501-PNIO
CI502-PNIO
CI504-PNIO
CI511-ETHCAT
CI512-ETHCAT
CI512-KBA
CI521-MODTCP
CI522-MODTCP
CI541-DP
CI542-DP
CI581-CN
CI582-CN
CI590-CS31-HA
CI592-CS31
DC505-FBP
DC551-CS31
S500 I/O Modules:

AC522
AI523
AI531
AO523
AX521
AX522
CC522
DA501
DA502
DC522
DC523
DC532
DC541-CM
DI524
DO524
DX522
DX531
FM502
PD501-4CH
## Terminal Units:

TU505-FBP  
TU506-FBP

<table>
<thead>
<tr>
<th>Component name</th>
<th>Lead (Pb)</th>
<th>Mercury (Hg)</th>
<th>Cadmium (Cd)</th>
<th>Hexavalent chromium (Cr6)</th>
<th>Polybrominated Biphenyl (PBB)</th>
<th>Polybrominated Diphenyl ethers (PBDE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical component (plastic)</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Mechanical component (metal)</td>
<td>X</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>PCBA</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
</tbody>
</table>

This table was developed according to the provisions of SJ/T 11364.

O: The content of such hazardous substance in all homogeneous materials of such component is below the limit required by GB/T 26572.

X: the content of such hazardous substance in a certain homogeneous material of such component is beyond the limit required by GB/T 26572.

## Terminal Units:

TU507-ETH  
TU508-ETH  
TU509  
TU510  
TU515  
TU516  
TU531  
TU532  
TU542  
TU551-CS31  
TU552-CS31
AC500-S Series

AC500-S CPUs:

SM560-S

AC500-S I/O Modules:

AI581-S
DI581-S
DX581-S
TU582-S

AC500-S-XC Series

AC500-S-XC CPUs:

SM560-S-XC

AC500-S-XC I/O Modules:

AI581-S-XC
DI581-S-XC
DX581-S-XC
TU582-S-XC
AC500-XC Series

AC500-XC CPUs:

PM573-ETH-XC
PM582-XC
PM583-ETH-XC
PM591-ETH-XC
PM592-ETH-XC
PM595-4ETH-M-XC

AC500-XC Communication Modules:

CM572-DP-XC
CM577-ETH-XC
CM578-CN-XC
CM579-PNIO-XC
CM588-CN-XC

AC500-XC Communication Interface Modules:

CI501-PNIO-XC
CI502-PNIO-XC
CI504-PNIO-XC
CI521-MODTCP-XC
CI522-MODTCP-XC
CI541-DP-XC
CI542-DP-XC
CI581-CN-XC
CI582-CN-XC
CI590-CS31-HA-XC
CI592-CS31-XC
DC551-CS31-XC
## AC500-XC Terminal Bases:

<table>
<thead>
<tr>
<th>Component name</th>
<th>Lead (Pb)</th>
<th>Mercury (Hg)</th>
<th>Cadmium (Cd)</th>
<th>Hexavalent chromium (Cr6)</th>
<th>Polybrominated Biphenyl (PBB)</th>
<th>Polybrominated Diphenyl ethers (PBDE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical component (plastic)</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Mechanical component (metal)</td>
<td>X</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>PCBA</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
</tbody>
</table>

This table was developed according to the provisions of SJ/T 11364.  
O: The content of such hazardous substance in all homogeneous materials of such component is below the limit required by GB/T 26572  
X: the content of such hazardous substance in a certain homogeneous material of such component is beyond the limit required by GB/T 26572

## AC500-XCTerminal Bases:

<table>
<thead>
<tr>
<th>Component name</th>
</tr>
</thead>
<tbody>
<tr>
<td>TF501-XC</td>
</tr>
<tr>
<td>TF521-XC</td>
</tr>
</tbody>
</table>
S500-XC I/O Modules:

AI523-XC
AI531-XC
AO523-XC
AX521-XC
AX522-XC
CD522-XC
DA501-XC
DA502-XC
DC522-XC
DC523-XC
DC532-XC
DC541-CM-XC
DI524-XC
DO524-XC
DX522-XC

S500-XC Terminal Units:

TU508-ETH-XC
TU510-XC
TU516-XC
TU532-XC
TU552-CS31-XC
AC500 Accessories

MC502
TA521
TA523
TA525
TA526
TA527
TA528
TA535
TA540
TA541
TA543
TK501
TK502
AC31 Adapter Series

AC31 Adapter CPUs:

07KT94-ARC-AD
07KT98-ARC-AD
07KT98-ARC-DP-AD
07KT98-ARC-ETH-AD
07KT98-ETH-DP-AD

AC31 Adapter I/Os:

07AC91-AD
07AC91-AD2
07AI91-AD
07DC91-AD
DC501-CS31-AD
AC500-eCo Series

AC500-eCo CPUs:
PM554-RP
PM554-RP-AC
PM554-TP
PM554-TP-ETH
PM556-TP-ETH
PM564-RP
PM564-RP-AC
PM564-RP-ETH
PM564-RP-ETH-AC
PM564-TP
PM564-TP-ETH
PM566-TP-ETH

AC500-eCo accessories:
MC503
TK503
TK504
TK506
TA561-RTC
TA562-RS
TA562-RS-RTC
TA566
TA570
TA571-SIM
TA563-9
TA563-11
TA564-9
TA564-11
TA565-9
TA565-11
AC500-eCo I/Os:

AI561
AI562
AI563
AO561
AX561
DI561
DI562
DI571
DI572
DC561
DC562
DO561
DO562
DO572
DO573
DX561
DX571
FM552