

# Certificate of Compliance

September 3, 2019

## Declaration

This is to certify that all Mellanox Technologies IC devices, adapter cards, Switch system and interconnect products are in compliance with the “REGULATION (EC) NO 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 18 DECEMBER 2006” concerning the **R**egistration, **E**valuation, **A**uthorization and **R**estriction of **C**hemicals (REACH)

## (EC) 1907/2006 Regulation Compliance

Mellanox Technologies certifies that all its products comply with the REGULATION (EC) NO 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006. Mellanox Technologies meets all REACH requirements and is committed to provide our customers with information about substances of very high concern (SVHC) if those are present above a concentration limit of 0.1% in any article assembled in our products.

## Content of Compliance

- 201 substances listed in SVHC (Substances of Very High Concern) list  
(for more information please refer to the following pages)
- Annex XVII Restrictions of the manufacture, placing on the market and use of certain dangerous substances, preparations and articles

**Important Note:** This certificate of compliance is provided by Mellanox Technologies based on declarations provided by third parties. This information is accurate to the best of Mellanox Technologies’ knowledge.

Signature:



Name: Isabella Schneider

Role: Staff Quality & Reliability Engineer

#	SVHC SUBSTANCE NAME	EC NUMBER	CAS NUMBER
<b>SVHC according to ED/67/2008 dated 28th October 2008</b>			
1.	4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9
2.	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	81-15-2
3.	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8
4.	Anthracene	204-371-1	120-12-7
5.	Benzyl butyl phthalate (BBP)	201-622-7	85-68-7
6.	Bis (2-ethyl(hexyl)phthalate) (DEHP)	204-211-0	117-81-7
7.	Bis(tributyltin)oxide (TBTO)	200-268-0	56-35-9
8.	Diarsenic pentaoxide	215-116-9	1303-28-2
9.	Diarsenic trioxide	215-481-4	1327-53-3
10.	Dibutyl phthalate (DBP)	201-557-4	84-74-2
11.	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	247-148-4 and 221-695-9	25637-99-4, 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)
12.	Lead hydrogen arsenate	232-064-2	7784-40-9
13.	Sodium dichromate	234-190-3	7789-12-0, 10588-01-9
14.	Triethyl arsenate	427-700-2	15606-95-8
<b>SVHC according to ED/68/2009, enters into force on 13th January 2010 (except of Acrylamide – dated 30th March 2010)</b>			
15.	2,4-Dinitrotoluene	204-450-0	121-14-2
16.	Acrylamide	201-173-7	79-06-1
17.	Anthracene oil	292-602-7	90640-80-5
18.	Anthracene oil, anthracene paste	292-603-2	90640-81-6
19.	Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2
20.	Anthracene oil, anthracene paste, distn. Lights	295-278-5	91995-17-4
21.	Anthracene oil, anthracene-low	292-604-8	90640-82-7
22.	Coal tar pitch, high temperature	266-028-2	65996-93-2
23.	Diisobutyl phthalate	201-553-2	84-69-5
24.	Lead chromate	231-846-0	7758-97-6
25.	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8
26.	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2
27.	Tris(2-chloroethyl)phosphate	204-118-5	115-96-8
<b>SVHC according to ED/30/2010 dated 18th June 2010</b>			
28.	Ammonium dichromate	232-143-1	7789-09-5
29.	Boric acid	233-139-2, 234-343-4	10043-35-3, 11113-50-1

#	SVHC SUBSTANCE NAME	EC NUMBER	CAS NUMBER
30.	Disodium tetraborate, anhydrous	215-540-4	1303-96-4, 1330-43-4, 12179-04-3
31.	Potassium chromate	232-140-5	7789-00-6
32.	Potassium dichromate	231-906-6	7778-50-9
33.	Sodium chromate	231-889-5	775-11-3
34.	Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1
35.	Trichloroethylene	201-167-4	79-01-6
<b>SVHC according to ED/95/2010 dated 14th December 2010</b>			
36.	2-Ethoxyethanol	203-804-1	110-80-5
37.	2-Methoxyethanol	203-713-7	109-86-4
38.	Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid.	231-801-5, 236-881-5	7738-94-5, 13530-68-2
39.	Chromium trioxide	215-607-8	1333-82-0
40.	Cobalt(II) carbonate	208-169-4	513-79-1
41.	Cobalt(II) diacetate	200-755-8	71-48-7
42.	Cobalt(II) dinitrate	233-402-1	10141-05-6
43.	Cobalt(II) sulphate	233-334-2	10124-43-3
<b>SVHC according to ED/31/2011 dated 20th June 2011</b>			
44.	1,2,3-trichloropropane	202-486-1	96-18-4
45.	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6
46.	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4
47.	1-methyl-2-pyrrolidone	212-828-1	872-50-4
48.	2-ethoxyethyl acetate	203-839-2	111-15-9
49.	Hydrazine	206-114-9	302-01-2, 7803-57-8
50.	Strontium chromate	232-142-6	6/2/7789
<b>SVHC according to ED/67/2008 and ED/31/2011</b>			
51.	Cobalt dichloride	231-589-4	7646-79-9
<b>SVHC according to ED/77/2011 dated 19th December 2011</b>			
52.	1,2-Dichloroethane	203-458-1	107-06-2
53.	2,2'-Dichloro-4,4'-methylenedianiline	202-918-9	101-14-4
54.	2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0
55.	4-(1,1,3,3-Tetramethylbutyl)phenol; 4-tert-octyl phenol	205-426-2	140-66-9
56.	Arsenic acid	231-901-9	7778-39-4

#	SVHC SUBSTANCE NAME	EC NUMBER	CAS NUMBER
57.	Bis(2-methoxyethyl) ether	203-924-4	111-96-6
58.	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8
59.	Calcium arsenate	231-904-5	7778-44-1
60.	Dichromium tris(chromate)	246-356-2	24613-89-6
61.	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	500-036-1	25214-70-4
62.	Lead diazide, Lead azide	236-542-1	13424-46-9
63.	Lead dipicrate	229-335-2	6477-64-1
64.	Lead styphnate	239-290-0	15245-44-0
65.	N,N-dimethylacetamide	204-826-4	127-19-5
66.	Pentazinc chromate octahydroxide	256-418-0	49663-84-5
67.	Phenolphthalein	201-004-7	77-09-8
68.	Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9
69.	Trilead diarsenate	222-979-5	3687-31-8
<b>SVHC according to ED/77/2011 and ED/95/2012</b>			
70.	Aluminosilicate Refractory Ceramic Fibres (index number 650-017-00-8)		
71.	Zirconia Aluminosilicate, Refractory Ceramic Fibres (Index No. 650-017-00-8)		
<b>SVHC according to ED/87/2012 dated 18th June 2012</b>			
72.	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	219-943-6	2580-56-5
73.	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	208-953-6	548-62-9
74.	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2
75.	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4
76.	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	209-218-2	561-41-1
77.	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8
78.	Diboron trioxide	215-125-8	1303-86-2
79.	Formamide	200-842-0	75-12-7
80.	Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2
81.	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1
82.	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	219-514-3	2451-62-9
83.	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	229-851-8	6786-83-0

#	SVHC SUBSTANCE NAME	EC NUMBER	CAS NUMBER
84.	$\beta$ -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	423-400-0	59653-74-6
<b>SVHC according to ED/169/2012 dated 19th December 2012</b>			
85.	Pyrochlore, antimony lead yellow	232-382-1	8012-00-8
86.	6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8
87.	Henicosaffluoroundecanoic acid	218-165-4	2058-94-8
88.	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans-stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	247-094-1, 243-072-0, 256-356-4, 260-566-1	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9
89.	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]	201-604-9, 236-086-3, 238-009-9	85-42-7, 13149-00-3, 14166-21-3
90.	Dibutyltin dichloride (DBTC)	211-670-0	683-18-1
91.	Lead bis(tetrafluoroborate)	237-486-0	13814-96-5
92.	Lead dinitrate	233-245-9	10099-74-8
93.	Silicic acid, lead salt	234-363-3	11120-22-2
94.	4-Aminoazobenzene	200-453-6	60-09-3
95.	Lead titanium zirconium oxide	235-727-4	12626-81-2
96.	Lead monoxide (lead oxide)	215-267-0	1317-36-8
97.	o-Toluidine	202-429-0	95-53-4
98.	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2
99.	Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]	272-271-5	68784-75-8
100.	Trilead bis(carbonate)dihydroxide	215-290-6	1319-46-6
101.	Furan	203-727-3	110-00-9
102.	N,N-dimethylformamide	200-679-5	68-12-2
103.	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-
104.	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	-

#	SVHC SUBSTANCE NAME	EC NUMBER	CAS NUMBER
105.	4,4'-methylenedi-o-toluidine	212-658-8	838-88-0
106.	Diethyl sulphate	200-589-6	64-67-5
107.	Dimethyl sulphate	201-058-1	77-78-1
108.	Lead oxide sulfate	234-853-7	12036-76-9
109.	Lead titanium trioxide	235-038-9	12060-00-3
110.	Acetic acid, lead salt, basic	257-175-3	51404-69-4
111.	[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9
112.	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	214-604-9	1163-19-5
113.	N-methylacetamide	201-182-6	79-16-3
114.	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7
115.	1,2-Diethoxyethane	211-076-1	629-14-1
116.	Tetralead trioxide sulphate	235-380-9	12202-17-4
117.	N-pentyl-isopentylphthalate	-	776297-69-9
118.	Dioxobis(stearato)trilead	235-702-8	12578-12-0
119.	Tetraethyllead	201-075-4	78-00-2
120.	Pentalead tetraoxide sulphate	235-067-7	12065-90-6
121.	Pentacosafuorotridecanoic acid	276-745-2	72629-94-8
122.	Tricosafuorododecanoic acid	206-203-2	307-55-1
123.	Heptacosafuorotetradecanoic acid	206-803-4	376-06-7
124.	1-bromopropane (n-propyl bromide)	203-445-0	106-94-5
125.	Methoxyacetic acid	210-894-6	625-45-6
126.	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7
127.	Methyloxirane (Propylene oxide)	200-879-2	75-56-9
128.	Trilead dioxide phosphonate	235-252-2	12141-20-7
129.	o-aminoazotoluene	202-591-2	97-56-3
130.	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0
131.	4,4'-oxydianiline and its salts	202-977-0	101-80-4
132.	Orange lead (lead tetroxide)	215-235-6	1314-41-6
133.	Biphenyl-4-ylamine	202-177-1	92-67-1
134.	Diisopentylphthalate	210-088-4	605-50-5
135.	Fatty acids, C16-18, lead salts	292-966-7	91031-62-8
136.	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3
137.	Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7
138.	Lead cyanamidate	244-073-9	20837-86-9

SVHC according to ED/69/2013 dated 20th June 2013

#	SVHC SUBSTANCE NAME	EC NUMBER	CAS NUMBER
139.	Cadmium	231-152-8	7440-43-9
140.	Ammonium pentadecafluorooctanoate (APFO)	223-320-4	223-320-4
141.	Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1
142.	Dipentyl phthalate (DPP)	205-017-9	131-18-0
143.	4-Nonylphenol, branched and linear, ethoxylated		
144.	Cadmium oxide	215-146-2	1306-19-0
<b>SVHC according to ED/121/2013 dated 16th December 2013</b>			
145.	Cadmium sulphide	215-147-8	1306-23-6
146.	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	209-358-4	573-58-0
147.	Disodium 4-amino-3'-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	217-710-3	1937-37-7
148.	Dihexyl phthalate	201-559-5	84-75-3
149.	Imidazolidine-2-thione (2-imidazoline-2-thiol)	202-506-9	96-45-7
150.	Lead di(acetate)	206-104-4	301-04-2
151.	Trixylyl phosphate	246-677-8	25155-23-1
<b>SVHC according to ED/49/2014 dated 16th June 2014</b>			
152.	Cadmium chloride	233-296-7	10108-64-2
153.	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4
154.	Sodium peroxometaborate	231-556-4	7632-04-4
155.	Sodium perborate; perboric acid, sodium salt	239-172-9; 234-390-0	-
<b>SVHC according to ED/108/2014 dated 17th December 2014</b>			
156.	Cadmium fluoride	232-222-0	7790-79-6
157.	reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	-
158.	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1
159.	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7
160.	Cadmium sulphate	233-331-6	10124-36-4 31119-53-6
161.	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1
<b>SVHC according to ED/39/2015 dated 15th June 2015</b>			

#	SVHC SUBSTANCE NAME	EC NUMBER	CAS NUMBER
162.	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate	271-094-0 272-013-1	68515-51-5 68648-93-1
163.	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-	-
<b>SVHC according to ED/79/2015 dated 17th December 2015</b>			
164.	1,3-propanesultone	214-317-9	1120-71-4
165.	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1
166.	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3
167.	Nitrobenzene	202-716-0	98-95-3
168.	Perfluorononan-1-oic-acid and its sodium and ammonium salts	206-801-3	375-95-1 21049-39-8 4149-60-4
<b>SVHC according to ED/21/2016 dated 20th June 2016</b>			
169.	<u>Benzo[def]chrysene</u>	200-028-5	50-32-8
<b>SVHC according to ED/01/2017 dated 12th January 2017</b>			
170.	<u>4,4'-isopropylidenediphenol (Bisphenol A; BPA)</u>	201-245-8	80-05-7
171.	<u>4-heptylphenol, branched and linear</u>	-	-
172.	<u>Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts</u> <u>(Nonadecafluorodecanoic acid,</u> <u>Ammonium nonadecafluorodecanoate,</u> <u>Decanoic acid, nonadecafluoro-, sodium salt)</u>	206-400-3 221-470-5	335-76-2 3108-42-7 3830-45-3
173.	<u>p-(1,1-dimethylpropyl)phenol</u>	-	80-46-6
<b>SVHC according to ED/30/2017 dated 07th July 2017</b>			
174.	<u>Perfluorohexane-1-sulphonic acid and its salts</u>	-	-
<b>SVHC according to ED/01/2018 dated 03rd January 2018</b>			
175.	<u>Chrysene</u>	205-923-4	218-01-9
176.	<u>Benz[a]anthracene</u>	200-280-6	56-55-3
177.	<u>Cadmium nitrate</u>	233-710-6	10325-94-7
178.	<u>Cadmium hydroxide</u>	244-168-5	21041-95-2
179.	<u>Cadmium carbonate</u>	208-168-9	513-78-0
180.	<u>Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"<sup>TM</sup>)</u>	-	-
181.	<u>Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)</u>	-	-



#	SVHC SUBSTANCE NAME	EC NUMBER	CAS NUMBER
<b>SVHC according to ED/61/2018 dated 27 June 2018</b>			
182.	<u>Benzene-1,2,4-tricarboxylic acid 1,2 anhydride trimellitic anhydride; TMA</u>	209-008-0	552-30-7
183.	<u>Benzo[ghi]perylene</u>	205-883-8	191-24-3
184.	<u>Decamethylcyclopentasiloxane D5</u>	208-764-9	541-02-6
185.	<u>Dicyclohexyl phthalate DCHP</u>	201-545-9	84-61-7
186.	<u>Disodium octaborate</u>	234-541-0	12008-41-2
187.	<u>Dodecamethylcyclohexasiloxane D6</u>	208-762-8	540-97-6
188.	<u>Ethylenediamine EDA</u>	203-468-6	107-15-3
189.	<u>Lead</u>	231-100-4	7439-92-1
190.	<u>Octamethylcyclotetrasiloxane D4</u>	209-136-7	556-67-2
191.	<u>Terphenyl, hydrogenated</u>	262-967-7	61788-32-7
<b>SVHC according to ED/88/2018 dated 15 January 2019</b>			
192.	<u>1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one</u>	239-139-9	15087-24-8
193.	<u>2,2-bis(4'-hydroxyphenyl)-4-methylpentane</u>	401-720-1	6807-17-6
194.	<u>Benzo[k]fluoranthene</u>	205-916-6	207-08-9
195.	<u>Fluoranthene</u>	205-912-4	206-44-0; 93951-69-0
196.	<u>Phenanthrene</u>	201-581-5	85-01-8
197.	<u>Pyrene</u>	204-927-3	129-00-0; 1718-52-1
<b>SVHC according to ED/71/2019 dated 16 July 2019</b>			
198.	<u>2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides</u>	-	-
199.	<u>2-methoxyethyl acetate</u>	203-772-9	110-49-6
200.	<u>4-tert-butylphenol</u>	202-679-0	98-54-4
201.	<u>Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)</u>	-	-