CERTIFICATES FOR DRINKING WATER 1882

a ten page issue

November 2006
revision of March 2006

PRODUCT NAME	a– INSTITUTE b– DATE OF REPORT/REF. c– VALIDITY d– PRODUCT SHEET/REF.	CONCLUSION
Sigma Novaguard (Sigma Novaguard 840)	a– Folkehelsa National Institute of Public Health b– 06-08-2003, 99/728-MINT/ARMI/523.2 c– -- d– 7453 (7468)	Folkehelsa has approved Sigma Novaguard for use as coating in potable water tanks and pipes on ships and offshore installations. Folkehelsa finds Sigma Novaguard acceptable for use on shore as coating in potable water tanks, pipes and reservoirs.
Sigma Novaguard on Sigma Universal primer (Sigma Novaguard 840 on SigmaCover 280)	a– Folkehelsa National Institute of Public Health b– 06-08-2003, 99/728-MINT/ARMI/523.2 c– -- d– 7453 (7468), 7417	Folkehelsa has approved Sigma Novaguard with Sigma Universal primer for use as coating in potable water tanks and pipes on ships and offshore installations. Folkehelsa finds Sigma Novaguard with Sigma Universal primer acceptable for use on shore as coating in potable water tanks, pipes and reservoirs.
Sigma Novaguard on Sigmaprime (Sigma Novaguard 840 on SigmaPrime 200)	a– Folkehelsa National Institute of Public Health b– 20-08-2001, 99/728-MINT/ARMI/523.2 c– -- d– 7453, 7416	Folkehelsa has approved Sigma Novaguard with Sigmaprime for use as coating in potable water tanks and pipes on ships and offshore installations.
Sigma Novaguard (Sigma Novaguard 840)	a– Italian Ministry of Defence b– 21-12-2004, 154 c– 05-06-2008 d– 7453 (7468)	Solvent free, atoxic system for the protection of tanks for fuel, petrol, gasoline, potable water and distilled water for boilers, as per S.T.O. 666/P November 1989
Sigma Phenguard (Sigma Phenguard 930, Sigma Phenguard 935, Sigma Phenguard 940)	a– Greece certificate b– 05-01-2005, 015/050/298/2004 c– -- d– 7409, 7435, 7436	

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Sigma Phenguard (Sigma Phenguard 930, Sigma Phenguard 935, Sigma Phenguard 940)	a– Tritec environmental services LTD b– 08-10-1993, 078SIG93.TWF c– -- d– 7409, 7435, 7436	We are of the opinion that Sigma Phenguard paint preparation, would be suitable for marine water tank lining with respect to odour/taste pick up, upon super chlorination, to the specification outlined in the above test method.
Sigma Universal primer (SigmaCover 280)	a– SETSCO Services Pte Ltd b– 13-02-2001, T1535/ST/1 c– -- d– 7417	The results obtained show that the product **complies** with the requirements of SS375:Part 1, Clause 6 for the growth of aquatic micro-organisms test.
Sigma Universal primer SigmaGuard CSF 75 (SigmaCover 280 SigmaGuard CSF 575)	a– Australian Water Quality Centre b– 20-05-2005 4007/92.1696 c– -- d– 7417, 7475	Sigma Universal primer and Sigmaguard CSF 75 passed the requirements of clause 6.6 relating to genetic toxicity when tested at an exposure of 41700 mm^2 per litre.
Sigma Universal primer SigmaGuard CSF 85 (SigmaCover 280 SigmaGuard CSF 585)	a– Australian Water Quality Centre b– 20-05-2005 4007/92.1697 c– -- d– 7417, 7785	Sigma Universal primer and Sigmaguard CSF 85 passed the requirements of clause 6.6 relating to genetic toxicity when tested at an exposure of 41700 mm^2 per litre.
Sigmaguard CSF (SigmaGuard CSF 650)	a– Folkehelsa National Institute of Public Health b– 17-03-1995, 95/00672-2-AMI/621.2 (24-11-1995, 95/00672-3-AMI/621.2 transl.date and nr) c– -- d– 7443	Folkehelsa has evaluated Sigmaguard CSF toxicologically and approved Sigmaguard CSF coating for use in potable water tanks on ship and offshore installations.

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Sigmaguard CSF on Sigma Universal primer (SigmaGuard CSF 650 on SigmaCover 280)	a– b– c– d–	Folkehelsa National Institute of Public Health 14-07-1999, 99/-MINT/ARMI/523.2 (29-5-2001, 95/00672-MINT/ ARMI/523.2 transl.date and nr) -- 7443, 7417	Folkehelsa has approved Sigmaguard CSF with Sigma Universal primer for use as coating in potable water tanks on ships and offshore installations. Folkehelsa finds Sigmaguard CSF with Sigma Universal primer acceptable for use on shore as coating in potable water tanks and reservoirs.
Sigmaguard CSF on Sigmaprime (SigmaGuard CSF 650 on SigmaPrime 200)	a– b– c– d–	Folkehelsa National Institute of Public Health 20-08-2001, 99/000672-MINT/ARMI/523.2 -- 7443, 7416	Folkehelsa has approved Sigmaguard CSF with Sigmaprime for use as coating in potable water tanks on ships and offshore installations. Folkehelsa finds Sigmaguard CSF with Sigmaprime acceptable for use on shore as coating in potable water tanks and reservoirs.
Sigmaguard CSF (SigmaGuard CSF 650)	a– b– c– d–	Universiteit Gent 07-04-1993 -- 7443	The material analyzed satisfies the Belgian Norm NBN S29-001 and the R.D.'s mentioned in the report.
Sigmaguard CSF (SigmaGuard CSF 650)	a– b– c– d–	Russian sanitary certificate 04-10-2001, 78.02.05.231 04-10-2006 7443	
Sigmaguard CSF 75 (SigmaGuard CSF 575)	a– b– c– d–	ARPA 23-03-2006, 209/06 -- 7475	relating to overall migration test in compliance with the circular of Italian Ministry n. 174 Capo 2- art.5 - 06.04.2004, the product is suitable (FOR USE INTO) getting station plant, treatment, adduction and distribution of drinking water

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Sigmaguard CSF 75 (SigmaGuard CSF 575)	a– Australian Water Quality Centre b– 02-07-2004 4007/92.1507 c– -- d– 7475	Sigmaguard CSF 75 passed the requirements of clause 6.6 relating to genetic toxicity when tested at an exposure of 41700 mm^2 per litre.
Sigmaguard CSF 75 (SigmaGuard CSF 575) Glass fibre system	a– Australian Water Quality Centre b– 20-05-2005 4007/92.1698 c– -- d– 7475	Sigmaguard CSF 75 / Glass fibre system passed the requirements of clause 6.6 relating to genetic toxicity when tested at an exposure of 41700 mm^2 per litre.
Sigmaguard CSF 75 (SigmaGuard CSF 575)	a– Folkehelsa National Institute of Public Health b– 27-10-1998, 98/2240-MINT/ARMI/523.2 (6-6-2000, 98/2240-2 MINT/ARMI/523.2 transl.date and nr) c– -- d– 7475	Folkehelsa has approved Sigmaguard CSF 75 for use as coating in potable water tanks and pipes on ships and offshore installations. Folkehelsa finds Sigmaguard CSF 75 acceptable for use on shore as coating in potable water tanks, pipes and reservoirs.
Sigmaguard CSF 75 on Sigma Universal primer (SigmaGuard CSF 575 on SigmaCover 280)	a– Folkehelsa National Institute of Public Health b– 14-07-1999, 99/729-MINT/ARMI/523.2 (6-6-2000, 98/2193-MINT/ARMI/523.2 transl.date and nr) c– -- d– 7475, 7417	Folkehelsa has approved Sigmaguard CSF 75 with Sigma Universal primer for use as coating in potable water tanks and pipes on ships and offshore installations. Folkehelsa finds Sigmaguard CSF 75 with Sigma Universal primer acceptable for use on shore as coating in potable water tanks, pipes and reservoires.
Sigmaguard CSF 75 on Sigmaprime (SigmaGuard CSF 575 on SigmaPrime 200)	a– Folkehelsa National Institute of Public Health b– 20-08-2001, 99/729-MINT/ARMI/523.2 c– -- d– 7475, 7416	Folkehelsa has approved Sigmaguard CSF 75 with Sigmaprime for use as coating in potable water tanks and pipes on ships and offshore installations. Folkehelsa finds Sigmaguard CSF 75 with Sigmaprime acceptable for use on shore as coating in potable water tanks, pipes and reservoires.

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Sigmaguard CSF 75 (SigmaGuard CSF 575)	a– OTEC Joaquin Riera Tuebols, S.A. b– 03-08-2004 06974 A c– -- d– 7475	The mentioned product Sigmaguard CSF 75, fulfills the demands for global and specific migration of primary amines like isophoronediamine, benzyl alcohol and BADGE, as set down in the Spanish legislation resolution of 4th November 1982 and modification of Order 3rd July 1985 and in real decree 118/2003 of 31st January 2003 and modification Order SCO 983/2003 of 15th April 2003, for any period of contact and temperatures up to 40 °C, and dedicated to coatings that are in contact with alimentary products whose applicable simulant is distilled water for several times.
Sigmaguard CSF 75 (SigmaGuard CSF 575)	a– OTEC Joaquin Riera Tuebols, S.A. b– 03-08-2004 06974 B c– -- d– 7475	The results obtained in the test of chemical resistance to the water chlorine indicate a good behaviour of the system tested with a decrease from the inferior hardness to 20%. In reference to the determination of the transfer of compound organic, expressed as total organic carbon (TOC), in the simulate watery type distilled water, the obtained value, although data don't exist in normative national, it is inferior to the limit indicated in the French legislation (circulate DGS/VS4/nº99/217) for materials in contact with water for human consumption (testing 24 hours at 23ºC; <1 mgC/l, and for a relation surface-volume of 0.6 dm-1).
Sigmaguard CSF 75 (SigmaGuard CSF 575), SigmaGuard CSF (SigmaGuard CSF 650), SigmaGuard CSF 85 (SigmaGuard CSF 585)	a– SSOG - Stazione sperimentale per le industrie degli oli e grassi b– 26-08-2003, 03/2630 (2390) c– -- d– 7475, 7443, 7785	the product is suitable for applications with pipe and features intended to come in contact with drinking/to make drinkable water

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Sigmaguard CSF 75 (SigmaGuard CSF 575)	a– Stanford Consulting Laboratories b– 22-01-1999 WP 98/6569 c– -- d– 7475	Sigmaguard CSF 75 was tested for compliance to BS6920-1996 Edition. The product complies fully to the Sections of the standards 2.2 to 2.6 of the standard at an exposure surface area of ≈ 41,700 mm^2/L of test water.
Sigmaguard CSF 85 (SigmaGuard CSF 585)	a– Australian Water Quality Centre b– 09-07-2004 4007/92.1530 c– -- d– 7785	Sigmaguard CSF 85 passed the requirements of clause 6.6 relating to genetic toxicity when tested at an exposure of 41700 mm^2 per litre.
Sigmaguard CSF 85 (SigmaGuard CSF 585)	a– Belgaqua b– 17-05-2000, belg.097 c– -- d– 7785	Sigmaguard CSF 85 has been found conform the specifications for materials in contact with drinking water.
Sigmaguard CSF 85 (SigmaGuard CSF 585)	a– Environmental Management and Technology Center in Kansai b– 16-02-2001, 708-2 c– -- d– 7785	Sigmaguard CSF 85 has been tested under test methods as stipulated in the Japan Water Works Association K135-2000, suppl.2 and has been found correct and complete.
Sigmaguard CSF 85 (SigmaGuard CSF 585)	a– Environmental Management and Technology Center in Kansai b– 16-02-2001, 708-4 c– -- d– 7785	Sigmaguard CSF 85 has been tested under test methods as stipulated in the Japan Water Steel Pipe Association WSP051-95 and has been found correct and complete.
Sigmaguard CSF 85 (SigmaGuard CSF 585)	a– Folkehelsa National Institute of Public Health b– 25-10-1999, 99/730-MINT/ARMI/523.2 c– -- d– 7785	Folkehelsa has approved Sigmaguard CSF 85 for use as coating in potable water tanks and pipes on ships and offshore installations. Folkehelsa finds Sigmaguard CSF 85 acceptable for use on shore as coating in potable water tanks, pipes and reservoirs.

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Sigmaguard CSF 85 on Sigma Universal primer (SigmaGuard CSF 585 on SigmaCover 280)	a– b– c– d–	Folkehelsa National Institute of Public Health 25-10-1999, 99/730-MINT/ARMI/523.2 -- 7785, 7417	Folkehelsa has approved Sigmaguard CSF 85 with Sigma Universal primer for use as coating in potable water tanks and pipes on ships and offshore installations.Folkehelsa finds Sigmaguard CSF 85 with Sigma Universal primer acceptable for use on shore as coating in potable water tanks, pipes and reservoirs.
Sigmaguard CSF 85 on Sigmaprime (SigmaGuard CSF 585 on SigmaPrime 200)	a– b– c– d–	Folkehelsa National Institute of Public Health 20-08-2001, 99/730-MINT/ARMI/523.2 -- 7785, 7416	Folkehelsa has approved Sigmaguard CSF 85 with Sigmaprime for use as coating in potable water tanks and pipes on ships and offshore installations. Folkehelsa finds Sigmaguard CSF 85 with Sigmaprime acceptable for use on shore as coating in potable water tanks, pipes and reservoirs.
Sigmaguard CSF 85 (SigmaGuard CSF 585)	a– b– c– d–	Greece certificate 05-01-2005, 015/050/297/2004 -- 7785	
Sigmaguard CSF 85 (SigmaGuard CSF 585)	a– b– c– d–	Hygiene-Institut des Ruhrgebiets, Gelsenkirchen 07-07-1999, W 1239/99/Ju 07-07-2009 7785	The epoxy coating fulfils the requirements of DVGW-Arbeitsblatt W270 for the use with drinking water.
Sigmaguard CSF 85 (SigmaGuard CSF 585)	a– b– c– d–	Hygiene Ministry, The Peoples Republic of China 14-05-2004, 2004-0031 13-05-2008 7785	Over auditing, this product meet (life drinking water hygiene monitoring management methods) relevant regulations and approve to use.

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Sigmaguard CSF 85 (SigmaGuard CSF 585)	a– Institute of Maritime and Tropical Medicine, Gdynia, Poland b– 22-03-2000 c– 22-03-2010 d– 7785	The product meets hygienic standards.
Sigmaguard CSF 585 (SigmaGuard CSF 85)	a– The Netherlands Waterworks' Testing and Research institute KIWA N.V. b– 15-02-2005, K12827/03 c– -- d– 7785	Sigmaguard CSF 585 is suitable for application as coating system in potable water installations with a maximum operating temperature of 35°C.
Sigmaguard CSF 85 (SigmaGuard CSF 585)	a– Water Regulations Advisory Scheme (WRAS) b– 30-07-2004, MA2866/J c– March 2009 d– 7785	The samples of this product meet the test criteria of BS 6920 : Part 1 ("Specification") and thus comply with the requirements of the Water Regulations Advisory Scheme Tests of Effect of Water Quality. (Factory Applied)
Sigmaguard CSF 85 (SigmaGuard CSF 585)	a– Intertek ETL SEMKO b– 18-03-2004, MA2866/J c– -- d– 7785	This product has satisfied the criteria set out in BS 6920: Part 1: 2000 “Specification” and thus complies with the requirements of the Water Regulations Advisory Scheme Tests of Effect on Water Quality (BS 6920: 2000). It is suitable for use with cold but not hot water.
Sigmaguard CSF 585 (SigmaGuard CSF 85)	a– NSF b– 30-01-2006 c– -- d– 7785	Sigmaguard CSF 585 conforms to the requirements of NSF standard 61 - Drinking Water System Components - Health Effects.
Sigmaguard CSF 85 (SigmaGuard CSF 585)	a– SETSCO Services Pte Ltd b– 14-10-1999, H19631/ST c– -- d– 7785	Sigmaguard CSF 85 is deemed suitable for contact with water intended for human consumption, in accordance with SS 375:1994.

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Sigmaguard EHB (SigmaGuard 720)	a– b– c– d–	Folkehelsa National Institute of Public Health 24-10-2001, 01/993-MINT/ARMI/523.2 -- 7433	Folkehelsa has approved Sigmaguard EHB for use as coating in potable water tanks and pipes on ships and offshore installations. Folkehelsa finds Sigmaguard EHB acceptable for use onshore as coating in potable water tanks, pipes and reservoirs.
Sigmaguard EHB on Sigma Universal primer (SigmaGuard 720 on SigmaCover 280)	a– b– c– d–	Folkehelsa National Institute of Public Health 24-10-2001, 01/993-MINT/ARMI/523.2 -- 7433, 7417	Folkehelsa has approved Sigmaguard EHB with Sigma Universal primer for use as coating in potable water tanks and pipes on ships and offshore installations. Folkehelsa finds Sigmaguard EHB with Sigma Universal primer acceptable for use onshore as coating in potable water tanks, pipes and reservoirs.
Sigmaguard EHB on Sigmaprime (SigmaGuard 720 on SigmaPrime 200)	a– b– c– d–	Folkehelsa National Institute of Public Health 24-10-2001, 01/993-MINT/ARMI/523.2 -- 7433, 7416	Folkehelsa has approved Sigmaguard EHB with Sigmaprime for use as coating in potable water tanks and pipes on ships and offshore installations. Folkehelsa finds Sigmaguard EHB with Sigmaprime acceptable for use onshore as coating in potable water tanks, pipes and reservoirs.
Sigmaguard EHB (SigmaGuard 720)	a– b– c– d–	Hygiene Ministry, The Peoples Republic of China 14-05-2004, 2004-0030 13-05-2008 7433	Over auditing, this product meet (life drinking water hygiene monitoring management methods) relevant regulations and approve to use.
SigmaLine 523	a– b– c– d–	The Netherlands Waterworks' Testing and Research institute KIWA N.V. 15-02-2006, K12827/03 -- 7623	SigmaLine 523 is suitable for application as coating system in potable water installations with a maximum operating temperature of 35°C.

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Sigmaprime (SigmaPrime 200)	a– Folkehelsa National Institute of Public Health b– 18-03-2004, MINT/ARMI/523.2 c– -- d– 7416	Folkehelsa has approved Sigmaprime for use as coating in drinking water tanks and pipes on ships and offshore installations. Folkehelsa finds Sigmaprime acceptable for use on shore as coating in drinking water tanks, pipes and reservoirs.