

Determination of Compliance with Reduction Scheme for Adhesives Materials

BAE SYSTEMS MARITIME - SUBMARINES, BARROW-IN-FURNESS

Instructions: The below data sheet provides an easy-to-use tool to determine whether your installation meets the Reduction Scheme solvent:solids ratio. Please enter the data in the yellow boxes as required. When all your data has been entered the spreadsheet will automatically calculate your solvent balance and allowable solvent under the Reduction Scheme and display the difference. The message at the bottom of the table tells you whether your installation meets the Reduction scheme solvent:solids ratio.

If Extra rows are required for a table then press the appropriate insert row button found in the top right of the table

Target Emission Factor	1.2
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Period Covered	Nov 2012 - Oct 2013
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ADHESIVE COATINGS USED IN ACTIVITY:

Ref	Type of Product	Description of Use of Product	VOC g/kg or g/litre of product supplied as specified by supplier	Solids g/kg or g/litre of product supplied as specified by supplier	Litres or kg of product used in period as supplied	Mass of solids used in kg	Mass of solvent used in kg	Target Emission Factor from Table 4 of Guidance Note	Allowable solvent for product in kg under Reduction Scheme	Solvent balance in kg against allowable solvent under Reduction Scheme
1	Araldite 2011 *		0	1000	10.0	10	0	1.2	12	12
2	Araldite 2014 *		0	1000		0	0	1.2	0	0
3	Bostik 1430		742	138		0	0	1.2	0	0
4	Bostik 2402		671	209	14.5	3.0305	9.7295	1.2	4	-6

5	Bostik C		473	457		0	0	1.2	0	0
6	Conformal bond - Versalink P1000 part A & Supresec 2021 part B (MDI)		0	1220		0	0	1.2	0	0
7	Dow Corning White 784		42	998	244.82	244.33	10.2824	1.2	293	283
8	Dow Corning Clear 784		42	998	286.44	285.867	12.0305	1.2	343	331
9	ET - 10		750	500		0	0	1.2	0	0
10	Foster 30-36		500	500		0	0	1.2	0	0
11	Gripfil		360	840		0	0	1.2	0	0
12	Idenden 10-188		687.5	562.5		0	0	1.2	0	0
13	Loctite 222		691.2	388.8	1.45	0.56376	1.00224	1.2	1	0
14	Loctite 225		54	1026	0.4	0.4104	0.0216	1.2	0	0
15	Loctite 241		54	1026		0	0	1.2	0	0
16	Loctite 243		21.6	1058.4		0	0	1.2	0	0
17	Loctite 270		4.75	1080	22.6	24.408	0.10735	1.2	29	29
18	Loctite 406		31.5	1018.5	10.4	10.572	0.32697	1.2	13	12
19	Loctite 415		32.7	1057.3	2.28	2.41064	0.07456	1.2	3	3
20	Loctite 454		31.5	1018.5	8.2	8.3517	0.2583	1.2	10	10
21	Loctite 495		33	1067	4.5	4.8015	0.1485	1.2	6	6
22	Loctite 496		33	1067	3.1	3.3077	0.1023	1.2	4	4
23	Loctite 542		32.4	1047.6	0.2	0.20952	0.00648	1.2	0	0
24	Loctite 572		54	1026	0.4	0.3591	0.0189	1.2	0	0
25	Loctite 574		54	1026	0.2	0.2052	0.0108	1.2	0	0
26	Loctite 601		33	1067	0.46	0.49082	0.01518	1.2	1	1
27	Loctite 2701		44	1056	1.75	1.848	0.077	1.2	2	2

28	Loctite 7061 - Use Solvents in Cleaning below	760	40	0	0	1.2	0	0
29	Sovereign PVA Adhesive	642	428	0	0	1.2	0	0
30	Wessex UW44P3 Paints	0	2000	0	0	1.2	0	0
31	Wessex WRA4501 Adhesive	0	1580	0	0	1.2	0	0
32	Wessex WRA4601 Adhesive	0	1000	155	155	0	1.2	186 186
33	Bostik 9252	700	300	56	16.8	39.2	1.2	20 -19
33	Devcon Aluminium Putty	0	1000	0	0	1.2	0	0

OTHER SOLVENTS USED IN ACTIVITY E.G. THINNING/CLEANING :

Ref	Type of Thinning/Cleaning or Other Solvent Used	Specific Gravity from Supplier	Litres used in period	Mass of other solvent used (kg)
1	Bostik 6009 cleaner	0.7		0
2	Bostik M501	0.88	142	-124.96
3	Desolvit FD1000	0.78	60	-46.8
4	Liquid neutraliser (in-house Chemist Lab)	0.99		0
5	Bostik 9252	0.8	22	-17.6
6	Loctite 7061	0.8	301.8	-241.44

SOLVENTS REMOVED FROM THE SITE AS WASTE

Ref	Type of waste	Estimated amount of solvent in waste (g/litre)	Amount of waste removed from site (litres)	Mass of solvent disposed of (kg)
1	Solvent in collected waste			0

SUMMARY OF COMPLIANCE WITH THE REDUCTION SCHEME

Total solids used (kg)	773
Total solvent used in adhesives (kg)	73
Total solvent used in cleaners (kg)	431
Total solvent consumption (kg)	504
Mass of solvent disposed of (kg)	0
Target emission (kg)	907
Actual emission (kg)	504
Difference (kg)	403

The mix of products, thinners and equipment cleaning solvents used shows the installation meets the Reduction Scheme solvent:solids ratio