

**COVRAD HEAT TRANSFER LTD  
SOLVENT BALANCE 2008**

**COATINGS USED IN ACTIVITY**

Ref	Type of Product	Description of Use of Product	VOC g/litre of product supplied	Solids g/litre of product supplied	Litres or kg of product used in 12 month period as supplied	Mass of solids used in kg	mass of solvent used in kg	Target Emissions 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	ZINC RICH PRIMER BASE	COMPONENTS FOR HIGH TEMPERATURE APPLICATIONS. SOLVENT USE 0.148 TONNES NON-FOOD CONTACT	0.41	2.39	44	105.16	18.04	0.37	38.9092	20.8692
2	BLACK / GREY 2 PACK EPOXY PAINT	INTERMEDIATE OR FINISHED COATING OF FINISHED ASSEMBLIES. SOLVENT USE 0.541TONNES NON-FOOD CONTACT	0.33	0.82	1365	1119.3	450.45	0.37	414.141	-36.309
3	2 PACK EPOXY ACTIVATOR	INTERMEDIATE OR FINISHED COATING OF FINISHED ASSEMBLIES. SOLVENT USE 0.3757 TONNES NON-FOOD CONTACT	0.443	0.707	814	575.498	360.602	0.37	212.93426	-147.66774
4	ELECTROSTATIC HT POWDER	ELECTROSTATIC POWDER COATING OF STEEL COMPONENTS AND FABRICATIONS. NO SOLVENT USE	0	1	21100	21100	0	0.37	7807	7807
5	BLACK SINGLE PACK FINISH	FINISH COATING OF STEEL COMPONENTS. SOLVENT USE 0.125 TONNES NON-FOOD CONTACT	0.544	0.581	40	23.24	21.76	0.37	8.5988	-13.1612
6	BLACK PRIMER SINGLE PACK	PRIMER / INTERMEDIATE COATING OF STEEL. SOLVENT USE 2.9704 TONNES NON-FOOD CONTACT	0.47	0.798	9500	7581	4465	0.37	2804.97	-1660.03

SUB TOTAL            5970.70126

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<b>OTHER SOLVENTS USED IN ACTIVITY E.G. THINNING / CLEANING</b>				
Ref	Type of Thinning / Cleaning or Other Solvent Use	Specific Gravity from supplier	Litres used 2008 to date	
1	TRICHLOROETHYLENE VAPOUR DEGREASING OF FABRICATED PARTS	1.46	1640	-2394.4
2	PERCHLOROETHYLENE	1.625	1025	-1665.625
3	THINNING OF BLACK PRIMER& TYPE 200 FINISH	0.867	3340	-2895.78
4	THINNING OF INTERZINC PAINT	0.852	20	-17.04
5	GUN CLEANER	0.85	2400	-2040
6	THINNERS FOR 2 PACK EPOXY TOP COAT	0.85	615	-522.75

<b>SOLVENTS REMOVED FROM THE SITE AS WASTE</b>					
Ref	Type of Waste	Estimated amount of solvent in waste (g/litre)	Amount of waste removed from site (litres)	Specific Gravity of solvent	Mass of solvent disposed of (kg)
1	TRICHLOROETHYLENE	1.3	600	1.46	1138.8
2	PERCHLOROETHYLENE	1.5	410	1.625	999.375
2	WASTE PAINT AND THINNERS	0.5	2870	0.87	1248.45
3	PAINT PAST SELL-BY DATE	0.5	25	0.85	10.625
4	USED GUN CLEANER	0.7	250	0.85	148.75

	Total Actual Emission	Total Target Emission	Difference
	10386.447	12027.58326	1641.13626

VOC PURCHASES 2008  
(RECEIPTS)

21st July 2008

2008		PERCHLORETHYLENE CON-IT-00778 LITRES	TRICHLOROETHYLENE CON-IT00750 LITRES	PA24 E.P CON-IT-721 LITRES	VT2/1 THINNER CON-IT-00022 LITRES	COPON EP2000 CON-IT-00773 LITRES	SA65 THINNER CON-IT-00774 LITRES	BLACK PAINT CON-IT-00783 LITRES	THINNER 05/46 CON-IT-00784 LITRES
JANUARY		0	820	0	0	0	0	630	340
FEBRUARY		615	820	0	0	0	0	1220	450
MARCH		0	0	0	0	0	0	800	250
APRIL		0	0	0	0	0	0	960	350
MAY		205	0	0	0	0	0	370	200
JUN		0	0	0	0	0	0	1000	400
JULY		0	0	0	0	0	0	800	300
AUGUST		0	0	0	0	0	0	940	250
SEPTEMBER		0	0	0	0	0	0	1060	200
OCTOBER		0	0	0	0	0	0	1320	450
NOVEMBER		205	0	0	0	0	0	400	150
DECEMBER			0	0	0	0	0		
TOTAL 2008		1025	1640	0	0	0	0	9500	3340
VOC LEVEL	(GRAMS/LITRE)	1625	1460	735	810	400	820	470	867
TOTAL VOC(PURCH)		1.665625	2.3944	0	0	0	0	4.465	2.89578
HOW USED		AS REC'D	AS REC'D	SINGLE PACK	THINNER FOR PA24	TWO PACK	THINNER FOR EP2000	HI-SHEEN ETCH	FOR 00783
THINNING RATE		N/A	N/A		10%		<5%		10%
RESULTANT VOC		1625	1460		747		415		589
CLAUSE 20 REF					d(i)		d(v)		d(ii)
RELEASED		0	0.8974						
TOTAL VOC	COATINGS	10.958267							
TOTAL VOC	DEGREASING	4.060025							
STOCK LEVEL (LTR)		205	0						
TRIKE(TONNES)	STOCK VOC	0.333125	0						
WASTE REMOVED FROM SITE(LTR)		410							
EGREASER	TONNES	0	1.497						
WASTE STILL ON SITE (LTR)		820							
PERCH	TONNES	1.3325	0						
	TOTAL VOC		11.855667						

VOC PURCHASES 2008  
(RECEIPTS)

21st July 2008

2008	INTERZINC PNT	INTERZINC HARD2L	THINNERS GTA220	CLEANING SOLN	47819	IN7NS156	55904	62401	BLACK SPRAY	200 Airdrying
	CON-IT-00147	CON-IT-00146	CON-IT-00145	CON-IT-00732	CON-IT-00809	CON-IT-00813	CON-IT-00825	CON-IT-00782	CON-IT-785	CON-IT-00804
	LITRES	LITRES	LITRES	LITRES	LITRES	LITRES	LITRES	LITRES	LITRES	LITRES
JANUARY	16	12	0	300	120	0	80	40	24	0
FEBRUARY	0	0	0	0	104	16	80	40	30	0
MARCH	16	0	20	300	40	16	40	40	18	0
APRIL	0	0	0	300	120	16	80	85	36	0
MAY	0	0	0	0	132	16	80	20	36	0
JUN	0	0	0	300	112	16	60	80	30	0
JULY	0	0	0	300	98	16	60	20	0	0
AUGUST	0	0	0	0	118	20	80	40	24	0
SEPTEMBER	0	0	0	300	104	32	80	90	24	0
OCTOBER	0	0	0	300	144	24	84	80	5	0
NOVEMBER	0	0	0	300	101	0	90	80	0	0
DECEMBER										
TOTAL 2007	32	12	20	2400	1193	172	814	615	227	0
VOC LEVEL (GRAMS/LITRE)	410	410	852	850	330	330	443	850	735	544.5
TOTAL VOC	0.01312	0.00492	0.01704	2.04	0.39369	0.05676	0.360602	0.52275	0.166845	0
HOW USED	2-PACK ZINC PRIMER	2-PACK ZINC ACTIVATOR	THINNER FOR INTERZINC	AS REC'D	2 PACK BASE	2 PACK BASE	2 PACK ACTIVATOR	THINNER	AEROSOL	SINGLE PACK FINISH
THINNING RATE		10%		N/A			<5%		N/A	5%
RESULTANT VOC		439		850			375		735	521
CLAUSE 20 REF		d(ii)		N/A			d(v)		d(i)	d(v)

