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15th September 2017

SOLVENT MANAGEMENT PLAN 2016-2017

References:

A. Ipswich Borough Council Permit Reference: EP38/3/LB

FOREWORD

1. The attached SMP is submitted in accordance with Reference A.

SMP REVIEW FINDINGS

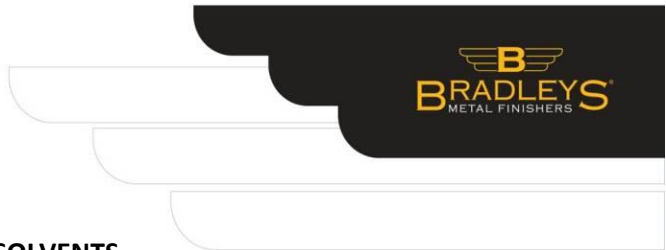
2. The initial findings identify that there has been a 0.82% reduction in Fugitive Emissions compared to last year's figures. It is noted that there was a 13.9% reduction in total paint purchased over this reporting period which is partially due to current market trends but also due to continuous improvement activity focusing on stock management and control through supporting LEAN activity (minimizing stock holdings and preventing over purchasing).

3. The reduction in solvents used in pretreatment and paint equipment cleaning has reduced significantly in line with our Environmental Objectives. Solvent cleaning material usage is 50% lower than that reported in 2015. With equipment cleaning solvents reducing by 43% in the same period.

4. If you require further clarification, please do not hesitate to contact me.

W L Ashcroft
SHEQ Manager

Bradleys Metal Finishers Solvent Plan
Permit Ref: EP38/3/LB
01 Sep 2016 to 31 Aug 2017



SUPPLIER	TOTAL USED (KGS)	SOLVENT CONTENT (%)	SOLVENTS (KGS)
Trimite	518.46	75.50%	391.44
Hempel	23.66	43.51%	10.29
IP&PS	974.00	61.00%	594.14
Cromadex	744.00	53.80%	400.27
Sherwin Williams	6832.576	30.26%	2067.54
International	5021.00	27.80%	1395.84
Safety Kleen	2550.00	85.00%	2167.50
Cromadex	540.00	73.00%	394.20

*Paint Equipment Cleaning
 *Surface Cleaning

17203.70

7421.219

3

Mass Balance Calculation

Kgs

I ₁ Quantity of Organic Solvents	7421.22	
O ₁ Emissions in Waste Gases	6021.38	
O ₂ Solvents Lost in Water	0.00	
O ₃ Solvents in Residue	0.00	
O ₄ Uncaptured to Air	542.62	2% of Total + Surface Cleaning
O ₅ Lost Due to Reaction	0.00	
O ₆ Solvents in Collected Waste	0.00	
O ₇ Organic Solvents Sold	0.00	
O ₈ Solvent Waste Recycling	783.00	Solvent and Paint Mix
O ₉ Spillage / Leakage	74.21	1% of Total

Fugitive Emissions (F)

$$F = O_2 + O_3 + O_4 + O_9 = \mathbf{616.8365}$$

8

Consumption (C)

$$C = I_1 - O_8 = \mathbf{6638.219}$$

3

Fugitive Emission Value = $F / (I_1 + I_2) \times 100\%$ **9.29%**