

St Neots Emissions Spreadsheet: Summary of Emissions Estimates January- December 1999

Calculated for following period:

Start Date: Jan-99

End Date: Dec-99

Emission Group	Estimation Technique	VBS E% Max	VBS E% Actual	Estimated Emission, Kg/Yr
Solvent Storage Tanks	EPA AP-42 Breathing & Loading	100%	0%	2,156
Mixers: Solvent Loading	EPA AP-42 Loading	100%	100%	-
Mixers: Solids Loading & Solvation	EIIP Model	0%	0%	7,433
Bulk Tanks: SF Loading	EPA AP-42 Loading	100%	100%	-
Bulk Tanks: Homogenization	EPA AP-42 Loading	100%	100%	-
Bulk Tanks: Breathing	EPA AP-42 Breathing	0%	0%	727
Bulk Packing	EPA AP-42 Loading	100%	75%	353
Tote Packing	EPA AP-42 Loading	100%	75%	183
Drum Packing	EPA AP-42 Loading	0%	0%	6,132
Misc. Packing	EPA AP-42 Loading	0%	0%	72
Total Plant				17,056

St. Neots VOC Emissions Inventory for JANUARY- DECEMBER 1999

Input Data Sheet

Period for Calculation

Start Date: Jan-99

End Date: Dec-99

Solvent Receipts

	<u>Mtl.</u>	<u>Kg. Received</u>	<u>Excel Var.</u>
ST 1	PENTO	129,317	tank1
ST 2	SQUO	1,335,062	tank2
ST 3	SQUO	1,335,062	tank3
ST 4	ACET	48,080	tank4
ST 6	IPA	51,342	tank6
ST 7	SOX	4,536	tank7

Solvent Used in SLC Production

	<u>Mtl.</u>	<u>Kg. Used</u>	<u>Excel Var.</u>
	ACET	58,734	acet
	IPA	51,328	ipa
	PENTO	133,986	pento
	SOX	4,578	sox
	SQUO	2,686,440	squo

Solvent Production

	<u>Kg. Produced</u>	<u>Excel Var.</u>
All SLC	5,196,594	slc

SLC Packaging

	<u>Kg. Produced</u>	<u>Excel Var.</u>
Bulk	878,276	bulk
IBCs	456,323	ibc
Drums	3,816,954	drum
All Other	45,041	other

Results of Annual VBS Monitoring

	<u>Monitored E%</u>	<u>Excel Var.</u>
Mixer solvent loading	100%	mixer_e
BT SF loading	100%	btsf_e
BT homogenization	100%	bthomo_e

St. Neots VOC Emissions Inventory JANUARY 1999 - DECEMBER 1999

Emissions Estimates

ST NEOTS DATA FOR 1999 SUBMISSION

Equipment	Matl.	T-pul, Kg/yr	SG	Throughput, gal/yr	Annual Avg. Storage Temperature, F	Avg. Diurnal Temperature Change, F	TVP, psia	Avg. MW, lbs/lb-mol	Avg. Vapor Space Height, ft	Effective Diameter, ft	Working Losses	Breathing Losses	Total Losses
Bulk Solvents at Storage Conditions – 13 C (55 F)													
ST 3	SQUO	1,335,062	0.68	517,904	55	0	2	82.4	na	na	2,048	831	2,048 831
ST 2	SQUO	1,335,062	0.68	517,904	55	0	2	82.4	na	na	2,048	831	2,048 831
ST 1	PENTO	128,317	0.71	48,046	55	0	0.5	56	na	na	33	15	33 15
ST 4	ACET	48,080	0.79	18,054	55	13.5	2.9	100	4.5	13.5	112	51	168 249
ST 6	IPA	51,342	0.72	18,825	55	13.5	0.4	60.1	4.6	10.6	11	5	18 23
ST 7	SOX	4,536	0.72	1,853	55	13.5	0.8	48.2	4.5	5.8	1	1	15 7
Solvent Loading to Mixers – 13 C (55 F)													
	ACET	58,734	0.79	19,612	55	0	2.9	100	na	na	136	82	136 82
	IPA	51,326	0.72	18,820	55	0	0.4	60.1	na	na	11	5	11 5
	PENTO	133,986	0.71	48,780	55	0	0.5	56	na	na	35	16	35 16
	SOX	4,878	0.72	1,879	55	0	0.8	48.2	na	na	1	1	1 1
	SQUO	2,686,440	0.68	1,042,913	55	0	2	82.4	na	na	4,125	1,875	4,125 1,875
SLC Products at B/T Loading (B/T Reception) Conditions – 60 C (146 F)													
BT 1	SLC	742,371	0.8	244,786	140	6	11.7	83.8	na	na	5,780	2,618	5,780 2,618
BT 2	SLC	742,371	0.8	244,786	140	6	11.7	83.8	na	na	5,780	2,618	5,780 2,618
BT 3	SLC	742,371	0.8	244,786	140	6	11.7	83.8	na	na	5,780	2,618	5,780 2,618
BT 4	SLC	742,371	0.8	244,786	140	6	11.7	83.8	na	na	5,780	2,618	5,780 2,618
BT 5	SLC	742,371	0.8	244,786	140	6	11.7	83.8	na	na	5,780	2,618	5,780 2,618
BT 6	SLC	742,371	0.8	244,786	140	13.5	11.7	83.8	na	na	5,780	2,618	5,780 2,618
BT 7	SLC	742,371	0.8	244,786	140	13.5	6.1	91.9	na	na	4,373	1,988	4,373 1,988
SLC Products at B/T Homog Pass Conditions – 50 C (122 F) Working Losses x 2 Passes													
BT 1	SLC	742,371	0.8	244,786	122	6	6.4	83.8	na	na	8,251	3,751	8,251 3,751
BT 2	SLC	742,371	0.8	244,786	122	6	6.4	83.8	na	na	8,251	3,751	8,251 3,751
BT 3	SLC	742,371	0.8	244,786	122	6	6.4	83.8	na	na	8,251	3,751	8,251 3,751
BT 4	SLC	742,371	0.8	244,786	122	6	6.4	83.8	na	na	8,251	3,751	8,251 3,751
BT 5	SLC	742,371	0.8	244,786	122	6	6.4	83.8	na	na	8,251	3,751	8,251 3,751
BT 6	SLC	742,371	0.8	244,786	122	13.5	6.4	83.8	na	na	8,251	3,751	8,251 3,751
BT 7	SLC	742,371	0.8	244,786	122	13.5	5.7	91.9	na	na	6,148	2,785	6,148 2,785
SLC Products at B/T Breathing Conditions – 22 C (72 F)													
BT 1	SLC	742,371	0.8	244,786	72	6	2.9	82.7	7	13	-	241	241 110
BT 2	SLC	742,371	0.8	244,786	72	6	2.9	82.7	7	13	-	241	241 110
BT 3	SLC	742,371	0.8	244,786	72	6	2.9	82.7	7	13	-	241	241 110
BT 4	SLC	742,371	0.8	244,786	72	6	2.9	82.7	7	13	-	241	241 110
BT 5	SLC	742,371	0.8	244,786	72	6	2.9	82.7	7	13	-	241	241 110
BT 6	SLC	742,371	0.8	244,786	72	13.5	2.9	82.7	4	11.5	-	220	220 100
BT 7	SLC	742,371	0.8	244,786	72	13.5	1.9	91.4	4	11.5	-	173	173 78
SLC Products at Packaging Conditions – 26 C (68 F)													
Bulk	SLC	878,278	0.8	289,599	68	na	2.7	82.7	na	na	3,104	1,411	3,104 1,411
IBCs	SLC	456,323	0.8	150,486	68	na	2.7	82.7	na	na	1,613	733	1,613 733
Drums	SLC	3,816,864	0.8	1,258,586	68	na	2.7	82.7	na	na	13,489	6,132	13,489 6,132
All Other	SLC	45,041	0.8	14,852	68	na	2.7	82.7	na	na	159	72	159 72
TOTAL EMISSIONS													

St. Neots VOC Emissions Inventory JANUARY 1999 - DECEMBER 1999					
Emissions Estimates					
ST NEOTS DATA FOR 1999 SUBMISSION					
			Post-VBS		
			Subtotal		
Equipment	VBS E%	Kg/yr	Kg/yr		
Bulk Solvents at Storage Conditions - 13 C (55 F)					
ST 3	0%	931			
ST 2	0%	931			
ST 1	0%	15			
ST 4	0%	249			
ST 6	0%	23			
ST 7	0%	7			
			2,156	ST	
Solvent Loading to Mixers - 13 C (55 F)					
	100%	-			
	100%	-			
	100%	-			
	100%	-			
	100%	-			
	100%	-			
	Mkr Solv Load		-	Mkr Solv Load	
BLC Products at B/T Loading (B/T Reception) Conditions - 60 C (140 F)					
BT 1	100%	-			
BT 2	100%	-			
BT 3	100%	-			
BT 4	100%	-			
BT 5	100%	-			
BT 6	100%	-			
BT 7	100%	-			
	B/T Loading		-	B/T Loading	
BLC Products at B/T Homag Pass Conditions - 50 C (122 F) Working Losses x 2 Passes					
BT 1	100%	-			
BT 2	100%	-			
BT 3	100%	-			
BT 4	100%	-			
BT 5	100%	-			
BT 6	100%	-			
BT 7	100%	-			
	B/T Hemo		-	B/T Hemo	
BLC Products at B/T Breathing Conditions - 22 C (72 F)					
BT 1	0%	110			
BT 2	0%	110			
BT 3	0%	110			
BT 4	0%	110			
BT 5	0%	110			
BT 6	0%	100			
BT 7	0%	78			
	B/T Breathing		727	B/T Breathing	
BLC Products at Packaging Conditions - 20 C (68 F)					
Bulk	75%	353			
IBCs	75%	183			
Drums	0%	5,132			
All Other	0%	72			
	Pkg		6,740	Pkg	
TOTAL EMISSIONS			9622		

St. Neots VOC Emissions Inventory

Material Properties

Bulk Solvents at Storage Conditions -- 13 C (55 F)

Temp. Conversion

Matl.	Annual Avg. Storage Temperature, F	Avg. Diurnal Temperature Change, F	TVP, psia	Avg. MW, lbs/lb-mol	Note
SQUO	55	0	2	82.4	
ACET	55	0	2.9	58	
PENTO	55	13.5	0.5	100	

	C	F
Bulk Storage	13	55
Packaging	20	68
B/T Breathing	22	72
Homog Pass	50	122
B/T Loading	60	140
Initial bp, SQUO	55	131

SLC Products at B/T Loading (SF Reception) Conditions -- 60 C (140 F)

Matl.	Annual Avg. Storage Temperature, F	Avg. Diurnal Temperature Change, F	TVP, psia	Avg. MW, lbs/lb-mol	Note
100A	140	na	11.7	83.8	100% SQUO
9291	140	na	11.7	83.8	100% SQUO
235	140	na	8.1	91.9	50:50 SQUO:PENTO
239	na	na	na	na	100% ACET

SLC Products at B/T Homog Pass Conditions -- 50 C (122 F)

Matl.	Annual Avg. Storage Temperature, F	Avg. Diurnal Temperature Change, F	TVP, psia	Avg. MW, lbs/lb-mol	Note
100A	122	na	8.4	83.6	100% SQUO
9291	122	na	8.4	83.6	100% SQUO
235	122	na	5.7	91.8	50:50 SQUO:PENTO
239	na	na	na	na	100% ACET

SLC Products at B/T Breathing Conditions -- 22 C (72 F)

Matl.	Annual Avg. Storage Temperature, F	Avg. Diurnal Temperature Change, F	TVP, psia	Avg. MW, lbs/lb-mol	Note
100A	72	6	2.9	82.7	100% SQUO
9291	72	6	2.9	82.7	100% SQUO
235	72	6	1.9	91.4	50:50 SQUO:PENTO
239	na	na	na	na	100% ACET

SLC Products at Packaging Conditions -- 20 C (68 F)

Matl.	Annual Avg. Storage Temperature, F	Avg. Diurnal Temperature Change, F	TVP, psia	Avg. MW, lbs/lb-mol	Note
100A	68	na	2.7	82.7	100% SQUO
9291	68	na	2.7	82.7	100% SQUO
235	68	na	1.7	91.4	50:50 SQUO:PENTO
239	68	na	na	na	100% ACET

Mixer Emissions Calculations

Using methods based on:
Emission Inventory Improvement Program
Preferred and Alternative Methods for Estimating Air
Emissions from Paint and Ink Manufacturing Facilities
USEPA

4.1.1 Material Loading (loading of Solids only)

$$[\text{equation 8.4-1}] \quad E(\text{VOC}) = 12.48 \cdot S \cdot P \cdot M \cdot Q / T$$

variable	value	units	comment
E(VOC)	2852.2309	lb	
S	1	dimless	assume S = 1 (overestimate)
P	2.00	psia	VP heptane at T=55 F
M	86.00	lb/lb-mol	
Q	685.40	1000 gal	throughput for all mixers x 40%
T	515	T(R)	= (T(F) + 460)

4.1.2 Heat-up Losses

$$[\text{equation 8.4-10}] \quad E(\text{VOC}) = \frac{(TVP, T1 / (14.7 - TVP, T1)) + (TVP, T2 / (14.7 - TVP, T2)) \cdot Q \cdot M \cdot CVC}{2}$$

variable	value	units	comment
E(VOC)	11339.116	lb	
TVP, T1	2	psia	VP at initial batch temp
TVP, T2	11.7	psia	VP at final batch temp
Q	0.043991	lb-mol/cycle	calc'd by equation 8.4-11, below
M	86	lb/lb-mol	molecular weight
CVC	1404.4848	cycles	batches per period = 1404.4848 (avg capacity)

[equation 8.4-11] $Q = (V/R) \cdot ((Pa1/T1) - (Pa2/T2))$			
variable	value	units	comment
Q	0.043991	lb-mol/cycle	
V	26.737968	ft ³	mixer nominal - working capacity = 200 gal
R	10.73	psia ft ³ /lb-mol R	ideal gas constant
Pa1	12.7	psia	14.7 - TVP, T1 (from above)
Pa2	3	psia	14.7 - TVP, T2 (from above)
T1	515	T(R)	T1 = 55 F
T2	600	T(R)	T2 = 140 F

T			
T1	55	°F	
T2	140	°F	
BS			
SSW	2400	Kg	
LSW	4800		
MM	4800		
ACET SW	2800		
T _{avg}	14800		

4.1.4 Surface Evaporation

$$[\text{equation 8.4-18}] \quad Ex = Mx \cdot Kx \cdot A \cdot Px \cdot 3600 \cdot H \cdot B / R \cdot T$$

variable	value	units	comment
Ex	1961.4943	lb	calculate for all species based on bp and atm
Mx	86	lb/lb-mol	average molecular weight
Kx	0.0044655	ft/sec	calc'd below from equation 8.4-17
A	1.3955556		based on 18" ID mixer hatch
Px	2		calc'd at T _{avg}
H	2	ft/batch	open vessel batch time = 2 ft/batch
B	1404.4848		batches per period
R	10.73	psia ft ³ /lb-mol R	
T	515		use T1

$$[\text{equation 8.4-17}] \quad Kx = 0.00438 \cdot U \cdot 0.78 \cdot ((18/Mx) \cdot 0.333$$

variable	value	units	comment
Kx	0.0044655	ft/sec	
U	2	mi/hr	assume wind speed in closed vessel is 2 mph
Mx	86	lb/lb-mol	average molecular weight

Vapour Balance Compliance Verification Method - DRAFT

EPA Authorisation, Darex - St Neots

Update: 1 December 1999

Condition 5 in the Authorisation requires the vapour balance circuit shall operate at an efficiency of at least 99%, in comparison to pre-vapour balancing. A method to verify compliance on an annual basis is outlined below.

The testing shall take place once per year, preferably during the summer months. Huntingdonshire District Council shall be notified 7 days before the annual test.

Using the test method outlined in the memo "Recommendations for VOC Emissions Tests" (included in section 7 of *Determination of BATNEEC for VOC Sources & Request to Modify EPA 1990 Part 1 Authorisation Conditions*), mass emissions will be determined for the following activities:

Activity	Monitoring Duration	Pre-Balancing Rate (PBR) ¹
Pumping solvent from storage tank to solvent mixer	15 minutes x 1 test	0.044 Kg/min
Pumping compound from mixer to bulk tank	1 hr x 1 test	0.18 Kg/min
Pumping from bulk tank to bulk tank (positive pass homogenisation)	1 hr x 1 test	0.15 Kg/min

The three activities will be assumed to be representative of the vapour balance system as a whole. Efficiency will be calculated using the following relationship:

$$E\% = \left(1 - \frac{MR}{PBR}\right) \times 100\%$$

Where E% = vapour balance efficiency, MR = measured rate in Kg/min, and PBR = pre-balance rate in Kg/min.

If E% is monitored at below 99% for any test, repairs shall be affected as soon as practical and the activity shall be monitored again.

For the annual emission inventory, the average of the measured efficiency values shall be used to calculate annual emissions. If repairs were required, then the E% used in the calculation for that year shall be the average of the pre-repair efficiency and the post-repair efficiency values.

Documentation of each test and result shall be kept on file for review by Huntingdonshire District Council as required.

¹ From spreadsheet STN_EMIS.XLS included in "St Neots Emission Inventory & Compliance Issues" memo of August 18, 1995.

VBS Efficiency Monitoring Log Sheet

Date(s) of Test: 2 December 1999

Person Conducting Test: G. DRAPER / A. ABBOTT

Leak Detection Threshold = 100 ppm

Activity	Batch Specific Data	Monitoring Duration	Max ppm	MR	E%
① Pumping solvent from storage tank to solvent mixer	Product: 100 A Mixer: MM Conservation Vent #: 10	Minimum: 15 minutes Actual Time on/off:	0	0	100%
② Pumping compound from mixer to bulk tank	Product: 100A "From" BT: LS "To" BT: 1 Conservation Vent #: 6	Minimum: 1 hr Actual Time on/off: ON OFF 10.38 10.58	0	0	100%
③ Pumping from bulk tank to bulk tank (positive pass homogenisation)	Product: 100 A "From" BT: 3 "To" BT: 2 Conservation Vent #: 7	Minimum: 1 hr Actual Time on/off:	0	0	100%

Additional Comments:

NOTES FROM MONITORING

① Flood PLACED @ 11:00 AM on MM vent.

MAX
Reading
= 0

PUMP ON @ 11:17

RDG 1 @ 11:20 ("7:27") on viewport

2 @ 11:25

3 @ 11:30

4 @ 11:35

③ Pump BT 3 → BT 2 "Pos Pass" Home

Home ON @ 2:10 PM

RDG 1 @ 2:37 ("10:44")

2 @ 3:00

3 @ 3:08

4 @ 3:25

MAX rdg
= 0

② Pump ~~BT~~ LS → BT 1

Pump ON @ 10:38

DEC 21st 1999 4

READING TAKEN EVERY MINUTE FOR 20 MINS

MAX RDG = 0

Material Analysis: Receipts/Issues

SOLVENT USAGE
1999

Data selected by: JMSURES
on: 24.03.2000 / 11:55:04
System / client: PRD / 030
Variant: SOLVENTS
Info structure: S039 - Inventory Controlling
Selected records: 104
Selection time [sec]: 6.624
Selection vol. [KB]: 55

Plant: EQ 1520
Material: EQ ACET-M
EQ ASDP-M
EQ PALETTE-M
EQ IPA-M
EQ NAPPY-M
EQ HNIO-M
EQ SOLEX-M
EQ SCK-M
EQ SQUO-M
EQ SHEET-M
Storage location: -
MRP controller: -
Material group: -
Material type: -
Valuation class: -
Month: HT 01.1999 12.1999

No. of Month: 12
SQUO ST24 3

Month	Val. stk rec qty	Val. stk iss qty	Valuated stock	ChgtStckIssues	ChgtStckReceipts	ChgtStck
Total	2,608,305.000 KG	2,626,621.174 KG	46,894.931 KG	0.000 KG	0.000 KG	0.000 KG
01.1999	254,498.000 KG	244,224.572 KG	75,484.533 KG	0.000 KG	0.000 KG	0.000 KG
02.1999	263,396.000 KG	306,150.452 KG	32,730.081 KG	0.000 KG	0.000 KG	0.000 KG
03.1999	262,773.000 KG	256,682.833 KG	38,820.248 KG	0.000 KG	0.000 KG	0.000 KG
04.1999	219,235.000 KG	195,363.352 KG	62,691.896 KG	0.000 KG	0.000 KG	0.000 KG
05.1999	185,109.000 KG	212,138.203 KG	35,662.693 KG	0.000 KG	0.000 KG	0.000 KG
06.1999	245,670.000 KG	227,213.590 KG	54,119.103 KG	0.000 KG	0.000 KG	0.000 KG
07.1999	245,312.000 KG	258,345.197 KG	41,085.906 KG	0.000 KG	0.000 KG	0.000 KG
08.1999	232,851.000 KG	186,996.612 KG	86,940.294 KG	0.000 KG	0.000 KG	0.000 KG
09.1999	208,557.000 KG	194,404.188 KG	101,093.106 KG	0.000 KG	0.000 KG	0.000 KG
10.1999	213,473.000 KG	247,000.641 KG	67,565.465 KG	0.000 KG	0.000 KG	0.000 KG
11.1999	145,747.000 KG	161,058.694 KG	52,253.771 KG	0.000 KG	0.000 KG	0.000 KG
12.1999	131,684.000 KG	137,042.840 KG	46,894.931 KG	0.000 KG	0.000 KG	0.000 KG

SQUO + SQUO Loc'd 2640,24 1335062
(ISSU) 2688440 - 1344220

Material Analysis: Receipts/Issues

Data selected by JMEASURES
on 24.03.2000 / 11:55:04
System / client PRD / 030
Variant SOLMENIS
Info structure S039 - Inventory Controlling
Selected records 104
Selection time [sec] 6.624
Selection vol. [KB] 55

Plant HQ 1520
Material HQ ACET-M
HQ AGEP-M
HQ BALLEP-M
HQ IFA-M
HQ NWPY-M
HQ HEND-M
HQ SOLEX-M
HQ SOK-M
HQ SLD-M
HQ SHELT-M

Storage location -
MRP controller -
Material group -
Material type -
Valuation class -
Month BT 01.1999 12.1999

Nb. of Month: 10

Surck . *ST 2 + 3*

Month	Val.stk rec qty	Val.stk iss qty	Valuated stock	ChgtStckIssues	ChsStckReceipts	ChgtStck
Total	61,819.000 KG	61,819.000 KG	0.000 KG	0.000 KG	0.000 KG	0.000 KG
01.1999	22,730.000 KG	15,983.821 KG	6,746.179 KG	0.000 KG	0.000 KG	0.000 KG
02.1999	0.000 KG	0.000 KG	6,746.179 KG	0.000 KG	0.000 KG	0.000 KG
03.1999	0.000 KG	0.000 KG	6,746.179 KG	0.000 KG	0.000 KG	0.000 KG
04.1999	22,265.000 KG	15,983.821 KG	13,027.358 KG	0.000 KG	0.000 KG	0.000 KG
05.1999	0.000 KG	0.000 KG	13,027.358 KG	0.000 KG	0.000 KG	0.000 KG
06.1999	0.000 KG	0.000 KG	13,027.358 KG	0.000 KG	0.000 KG	0.000 KG
07.1999	0.000 KG	0.000 KG	13,027.358 KG	0.000 KG	0.000 KG	0.000 KG
08.1999	0.000 KG	0.000 KG	13,027.358 KG	0.000 KG	0.000 KG	0.000 KG
09.1999	16,824.000 KG	16,016.440 KG	13,834.918 KG	0.000 KG	0.000 KG	0.000 KG
10.1999	0.000 KG	13,834.918 KG	0.000 KG	0.000 KG	0.000 KG	0.000 KG

Material Analysis: Receipts/Issues

Data selected by: JMEASURES
 on: 24.03.2000 / 11:55:04
 System / client: SPD / 030
 Variant: SOLMENS
 Info structure: S039 - Inventory Controlling
 Selected records: 104
 Selection time [sec]: 6.624
 Selection vol. [KB]: 55

Plant: EQ 1520
 Material: EQ ACET-M
 EQ ASDF-M
 EQ ENULET-M
 EQ IFA-M
 EQ NAPI-M
 EQ BENIO-M
 EQ SOLEX-M
 EQ SOK-M
 EQ SQLO-M
 EQ SHELT-M
 Storage location: --
 MRP controller: --
 Material group: --
 Material type: --
 Valuation class: --
 Month: ET 01.1999 12.1999

No. of Month: 12

Punto ST. 1

Month	Val.stk rec qty	Val.stk iss qty	Valuated stock	ChrgtStockIssues	ChrgtStockReceipts	ChrgtStock
Total	129,316.994 KG	133,986.000 KG	0.000 KG	0.000 KG	0.000 KG	0.000 KG
01.1999	18,758.000 KG	5,111.997 KG	18,315.009 KG	0.000 KG	0.000 KG	0.000 KG
02.1999	12,700.000 KG	20,447.992 KG	10,567.017 KG	0.000 KG	0.000 KG	0.000 KG
03.1999	16,660.000 KG	12,140.995 KG	15,086.022 KG	0.000 KG	0.000 KG	0.000 KG
04.1999	4,480.000 KG	5,111.998 KG	14,454.024 KG	0.000 KG	0.000 KG	0.000 KG
05.1999	4,480.000 KG	10,223.996 KG	8,710.028 KG	0.000 KG	0.000 KG	0.000 KG
06.1999	23,261.000 KG	15,335.994 KG	16,635.034 KG	0.000 KG	0.000 KG	0.000 KG
07.1999	0.000 KG	14,057.997 KG	2,577.037 KG	0.000 KG	0.000 KG	0.000 KG
08.1999	12,091.000 KG	5,111.998 KG	9,556.039 KG	0.000 KG	0.000 KG	0.000 KG
09.1999	14,959.000 KG	10,223.996 KG	14,291.043 KG	0.000 KG	0.000 KG	0.000 KG
10.1999	10,840.000 KG	10,771.043 KG	14,360.000 KG	0.000 KG	0.000 KG	0.000 KG
11.1999	10,769.000 KG	20,335.994 KG	4,793.006 KG	0.000 KG	0.000 KG	0.000 KG
12.1999	318.994 KG	5,112.000 KG	0.000 KG	0.000 KG	0.000 KG	0.000 KG

Material Analysis: Receipts/Issues

Data selected by: JMEASURES
on: 24.03.2000 / 11:55:04
System / client: PRD / 030
Variant: SOLMENIS
Info structure: S039 - Inventory Controlling
Selected records: 104
Selection time [sec]: 6.624
Selection vol. [KB]: 55

Plant: EQ 1520
Material: EQ ACET-M
EQ ASDF-M
EQ BAULET-M
EQ IPA-M
EQ NAPPY-M
EQ EBND-M
EQ SOLEX-M
EQ SOK-M
EQ SULD-M
EQ SHEL-M
Storage location: --
MRP controller: --
Material group: --
Material type: --
Valuation class: --
Month: BT 01.1999 12.1999

No. of Month: 12

ACET

Month	Val. stk rec qty	Val. stk iss qty	Valuated stock	ChrgtStockIssues	ChrgtStockReceipts	ChrgtStock
Total	48,080.000 KG	58,733.700 KG	1,560.700 KG	0.000 KG	0.000 KG	0.000 KG
01.1999	0.000 KG	3,509.136 KG	8,705.264 KG	0.000 KG	0.000 KG	0.000 KG
02.1999	16,200.000 KG	5,265.902 KG	19,639.362 KG	0.000 KG	0.000 KG	0.000 KG
03.1999	0.000 KG	0.000 KG	19,639.362 KG	0.000 KG	0.000 KG	0.000 KG
04.1999	0.000 KG	2,924.280 KG	16,715.082 KG	0.000 KG	0.000 KG	0.000 KG
05.1999	0.000 KG	5,852.224 KG	10,862.858 KG	0.000 KG	0.000 KG	0.000 KG
06.1999	0.000 KG	2,924.280 KG	7,938.578 KG	0.000 KG	0.000 KG	0.000 KG
07.1999	15,880.000 KG	6,946.920 KG	16,871.658 KG	0.000 KG	0.000 KG	0.000 KG
08.1999	0.000 KG	4,625.400 KG	12,246.258 KG	0.000 KG	0.000 KG	0.000 KG
09.1999	16,000.000 KG	14,408.758 KG	13,637.500 KG	0.000 KG	0.000 KG	0.000 KG
10.1999	0.000 KG	3,170.500 KG	10,667.000 KG	0.000 KG	0.000 KG	0.000 KG
11.1999	0.000 KG	5,589.900 KG	5,077.100 KG	0.000 KG	0.000 KG	0.000 KG
12.1999	0.000 KG	3,516.400 KG	1,560.700 KG	0.000 KG	0.000 KG	0.000 KG

Material Analysis: Receipts/Issues

Data selected by JMEASURES
on 24.03.2000 / 11:55:04
System / client ERD / 030
Variant SOLMENIS
Info structure S039 - Inventory Controlling
Selected records 104
Selection time (sec) 6.624
Selection vol. (KB) 55

Plant EQ 1520
Material EQ ACET-M
EQ ASIF-M
EQ BALLET-M
EQ IPA-M
EQ NAPPY-M
EQ PENIO-M
EQ SOLEX-M
EQ SOK-M
EQ SQU-M
EQ SHEL-M
Storage location -
MRP controller -
Material group -
Material type -
Valuation class -
Month BT 01.1999 12.1999

Nb. of Months: 12 *IPA*

Month	Val.stk rec qty	Val.stk iss qty	Valuated stock	ChrgtStckIssues	ChrgtStckReceipts	ChrgtStck
Total	47,535.000 KG	47,793.836 KG	266.937 KG	0.000 KG	0.000 KG	0.000 KG
01.1999	7,952.000 KG	8,077.784 KG	399.989 KG	0.000 KG	0.000 KG	0.000 KG
02.1999	3,960.000 KG	4,121.860 KG	238.129 KG	0.000 KG	0.000 KG	0.000 KG
03.1999	9,940.000 KG	9,435.102 KG	743.027 KG	0.000 KG	0.000 KG	0.000 KG
04.1999	1,962.000 KG	1,751.895 KG	973.132 KG	0.000 KG	0.000 KG	0.000 KG
05.1999	1,978.000 KG	2,524.810 KG	426.322 KG	0.000 KG	0.000 KG	0.000 KG
06.1999	3,941.000 KG	2,869.768 KG	1,497.554 KG	0.000 KG	0.000 KG	0.000 KG
07.1999	1,965.000 KG	2,214.479 KG	1,248.075 KG	0.000 KG	0.000 KG	0.000 KG
08.1999	5,903.000 KG	6,650.988 KG	500.087 KG	0.000 KG	0.000 KG	0.000 KG
09.1999	0.000 KG	24.470 KG	475.617 KG	0.000 KG	0.000 KG	0.000 KG
10.1999	5,948.000 KG	6,224.785 KG	198.832 KG	0.000 KG	0.000 KG	0.000 KG
11.1999	3,966.000 KG	2,172.727 KG	1,992.105 KG	0.000 KG	0.000 KG	0.000 KG
12.1999	0.000 KG	1,725.168 KG	266.937 KG	0.000 KG	0.000 KG	0.000 KG

$$IPA + NAPPY = 51322$$

$$IPA + NAPPY$$

51328

Material Analysis: Receipts/Issues

Data selected by JMFAS:RES
on 24.03.2000 / 11:55:04
System / client HRD / 030
Variant SOLVAMIS
Info structure 9039 - Inventory Controlling
Selected records 104
Selection time [sec] 6.624
Selection vol. [KB] 55

Plant EQ 1520
Material EQ ACET-M
EQ ASDP-M
EQ BALLETT-M
EQ IFA-M
EQ NAPPY-M
EQ PENIO-M
EQ SOLEX-M
EQ SOK-M
EQ SUD-M
EQ SHILT-M
Storage location --
MFG controller --
Material group --
Material type --
Valuation class --
Month BT 01.1999 12.1999

Nb. of Month: 12 *NAPPY*

Month	Val.stk rec qty	Val.stk iss qty	Valuated stock	CnsgtStckIssues	CnsgtStckReceipts	CnsgtStck
Total	7,614.470 KG	7,067.270 KG	673.000 KG	0.000 KG	0.000 KG	0.000 KG
01.1999	1,320.000 KG	872.800 KG	573.000 KG	0.000 KG	0.000 KG	0.000 KG
02.1999	0.000 KG	319.200 KG	253.800 KG	0.000 KG	0.000 KG	0.000 KG
03.1999	0.000 KG	0.000 KG	253.800 KG	0.000 KG	0.000 KG	0.000 KG
04.1999	0.000 KG	177.334 KG	76.466 KG	0.000 KG	0.000 KG	0.000 KG
05.1999	1,320.000 KG	1,014.668 KG	381.798 KG	0.000 KG	0.000 KG	0.000 KG
06.1999	0.000 KG	177.334 KG	204.464 KG	0.000 KG	0.000 KG	0.000 KG
07.1999	1,320.000 KG	1,086.534 KG	437.930 KG	0.000 KG	0.000 KG	0.000 KG
08.1999	0.000 KG	284.400 KG	153.530 KG	0.000 KG	0.000 KG	0.000 KG
09.1999	2,994.470 KG	2,108.000 KG	1,040.000 KG	0.000 KG	0.000 KG	0.000 KG
10.1999	0.000 KG	582.000 KG	458.000 KG	0.000 KG	0.000 KG	0.000 KG
11.1999	0.000 KG	267.000 KG	191.000 KG	0.000 KG	0.000 KG	0.000 KG
12.1999	660.000 KG	178.000 KG	673.000 KG	0.000 KG	0.000 KG	0.000 KG

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• Material Analysis: Receipts/Issues

Data selected by JMEASUES
 on 24.03.2000 / 11:55:04
 System / client: PRD / 030
 Variant: SOLMENIS
 Info structure: S039 - Inventory Controlling
 Selected records: 104
 Selection time [sec]: 6.624
 Selection vol. [KB]: 55

Plant: EQ 1520
 Material: EQ ACEF-M
 EQ ASGF-M
 EQ BALLEF-M
 EQ IFA-M
 EQ NAFY-M
 EQ HNIO-M
 EQ SOLEK-M
 EQ SOK-M
 EQ SLO-M
 EQ SHEL-M

Storage location: --
 MRP controller: --
 Material group: --
 Material type: --
 Valuation class: --
 Month: BT 01.1999 12.1999

No. of Month: 12

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Month	Val.stk rec qty	Val.stk iss qty	Valuated stock	CrgtStckIssues	CrgStckReceipts	CrgtStck
Total	9,072.351 KG	9,156.027 KG	420.804 KG	0.000 KG	0.000 KG	0.000 KG
01.1999	1,296.000 KG	971.500 KG	828.960 KG	0.000 KG	0.000 KG	0.000 KG
02.1999	648.000 KG	744.400 KG	732.580 KG	0.000 KG	0.000 KG	0.000 KG
03.1999	648.000 KG	1,180.500 KG	200.080 KG	0.000 KG	0.000 KG	0.000 KG
04.1999	1,296.000 KG	1,148.000 KG	348.080 KG	0.000 KG	0.000 KG	0.000 KG
05.1999	1,296.000 KG	1,148.000 KG	496.080 KG	0.000 KG	0.000 KG	0.000 KG
06.1999	648.000 KG	252.700 KG	891.380 KG	0.000 KG	0.000 KG	0.000 KG
07.1999	648.000 KG	898.253 KG	641.127 KG	0.000 KG	0.000 KG	0.000 KG
08.1999	0.000 KG	245.098 KG	396.029 KG	0.000 KG	0.000 KG	0.000 KG
09.1999	1,296.000 KG	1,421.380 KG	270.649 KG	0.000 KG	0.000 KG	0.000 KG
10.1999	0.351 KG	250.098 KG	20.902 KG	0.000 KG	0.000 KG	0.000 KG
11.1999	1,296.000 KG	893.098 KG	423.804 KG	0.000 KG	0.000 KG	0.000 KG
12.1999	0.000 KG	3.000 KG	420.804 KG	0.000 KG	0.000 KG	0.000 KG

4536 4578

INF YSTMS - LOGISTICS - INVENTORY MANAGEMENT - MATERIAL

- RECORDS + ISSUES

Material Analysis: Receipts/Issues

Data selected by: JMEASURES
on: 24.03.2000 / 11:55:04
System / client: FRD / 030
Variant: SOLWENT
Info structure: S039 - Inventory Controlling
Selected records: 104
Selection time [sec]: 6.624
Selection vol. [KB]: 55

Plant: EQ 1520
Material: EQ ACET-M
EQ ASOP-M
EQ BAUFET-M
EQ IPA-M
EQ NAPPY-M
EQ PENIO-M
EQ SOLEX-M
EQ SOK-M
EQ SQU-M
EQ SHELIT-M
Storage location: -
MRP controller: -
Material group: -
Material type: -
Valuation class: -
Month: BT 01.1999 12.1999

VARIANTS
SOLWENT RECORD + USAGE

TRN MC.A.

1999

SOLWENT RECORD + ISSUES

No. of Material: 9

Material		Val.stk rec qty	Val.stk iss qty	Valuated stock	ChgtStkIssues	ChgtStkReceipts	ChgtStk
Total		3,254,970.828 KG	3,302,736.190 KG	50,466.680 KG	0.000 KG	0.000 KG	0.000 KG
ACET-M	Acetone	✓ 48,080.000 KG	58,733.700 KG	1,560.700 KG	0.000 KG	0.000 KG	0.000 KG
ASOP-M	Hydrocar	✓ 38,207.000 KG	41,292.373 KG	0.000 KG	0.000 KG	0.000 KG	0.000 KG
BAUFET-M	Hydrocar	✓ 305,021.013 KG	316,266.810 KG	650.308 KG	0.000 KG	0.000 KG	0.000 KG
IPA-M	ISOPROPY	• 47,535.000 KG	47,793.836 KG	266.937 KG	0.000 KG	0.000 KG	0.000 KG
NAPPY-M	Propyl. a	7,614.470 KG	7,067.270 KG	673.000 KG	0.000 KG	0.000 KG	0.000 KG
PENIO-M	Heptane	✓ 129,316.994 KG	133,986.000 KG	0.000 KG	0.000 KG	0.000 KG	0.000 KG
SOLEX-M	Hexane	✓ 61,819.000 KG	61,819.000 KG	0.000 KG	0.000 KG	0.000 KG	0.000 KG
SOK-M	Ethanol	9,072.351 KG	9,156.027 KG	420.804 KG	0.000 KG	0.000 KG	0.000 KG
SQU-M	Hydrocar	2,608,305.000 KG	2,626,621.174 KG	46,894.931 KG	0.000 KG	0.000 KG	0.000 KG