CONRAD GEOSCIENCE CORP. www.conradgeo.com
Environmental Scientists One Civic Center Plaza, Suite 501, Poughkeepsie, New York 12601 • 845/454-2544 • fax: 845/454-2655

February 20, 2007

Michael MacCabe, P.E.
New York State Dept. of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Re: **January 2007 Vapor Intrusion Sampling Results;**
Apple Valley Shopping Center Superfund Site, LaGrange, New York
Index No. II-CERCLA-10224
NYSEC Site #3-14-084
Conrad Geoscience File #AL030070

Dear Mr. MacCabe:

In January 2007, Conrad Geoscience Corp. conducted vapor intrusion sampling at the Apple Valley Shopping Center in Lagrange, New York (Figure 1). Field activities, procedures and results are summarized below.

SUB-SLAB VAPOR AND INDOOR AIR QUALITY MONITORING

On January 11, 2007, Conrad Geoscience completed the indoor air quality questionnaire and building inventory for the Pro Cleaners and Tailors facility (formerly Soccer Empire). The questionnaire and building inventory are attached. None of the eight items listed on the inventory contain chlorinated solvents. No chlorinated solvents are used in the cleaning process. Material Safety Data Sheets (MSDS) for each product listed on the inventory are attached.

On January 16, 2007, Conrad Geoscience collected a sub-slab vapor sample from Freshtown Marketplace, Absolute Pizza, Pro Cleaners and Tailors, Lagrange Pharmacy, State Farm Insurance, and Dollar Store (Figure 2). Prior to sample collection, each sampling port was purged by attaching a peristaltic sampling pump to the threaded coupling and evacuating the vapors into two 1-liter Tedlar® bags. The contents of each Tedlar® bag were screened with a photoionization detector (PID) and 4-gas meter: Percent oxygen (% O_2), percent of lower explosive limit (% LEL), carbon monoxide (CO), and hydrogen sulfide (H_2S).

After purging, Conrad Geoscience collected sub-slab vapor samples by connecting each sampling port to a flow controller with dedicated Teflon® tubing. The flow controller is then connected to the 1-liter summa canister and sample collection begins. The flow controller is set to collect a 1-liter sample over a 24-hour period.

Simultaneous ambient indoor air samples were collected at each sub-slab sample location using identical summa canisters. Two ambient indoor air samples were collected in Freshtown. One in the rear of the store in the employee break room (IAFT-1) and one at the location of Sub-Slab Sample Location SVFT-5 (IAFT-2) in the manager station (Figure 2).

A simultaneous ambient outdoor air sample was collected using a 1-liter summa canister. The outdoor air sample (Sample OA-7) was collected in an upwind location in the northeast section of the parking lot (Figure 2).

Sub-slab depressurization systems in Freshtown Marketplace and Absolute Pizza remained in operation during the sampling event.

On January 17, 2007, at the end of the 24-hour sampling period, summa canisters were shipped via overnight delivery to Paradigm Environmental Services in Rochester, New York, a NYSDOH-certified laboratory. Samples were analyzed for tetrachloroethene (PCE); trichloroethene (TCE); cis-1,2-dichloroethene; and vinyl chloride via USEPA Method TO-15.

Sample numbers are as follows:

Location	Sub-Slab Vapor	Indoor Air	Outdoor Air
Freshtown	SVFT-2 through SVFT-5	IAFT-1 & IAFT-2	
Absolute Pizza	SVAP-1	IAAP-1	
Pro Cleaners	SVSE-1	IASE-1	
Lagrange Pharmacy	SVLP-1	IALP-1	
State Farm	SVSF-1	IASF-1	
Dollar Store	SVDS-1	IADS-1	
Northeast Parking Area			OA-7

RESULTS

Sample results are summarized in Table 1. Copies of laboratory reports are attached.

Freshtown Marketplace

Sub-slab vapor sample SVFT-4 was collected over an 8 hour period due to regulator mis-calibration. Sub-slab sample SVFT-2 was not analyzed due to tampering. The Teflon tubing connected to SVFT-2 was discovered to have been damaged during sample collection, voiding the sample validity.

Sub-slab sample SVFT-3 contained PCE (24.4 $\mu g/m^3$) and TCE (1.33 $\mu g/m^3$). Sub-slab sample SVFT-4 contained PCE (16.4 $\mu g/m^3$). Sub-slab sample SVFT-5 contained PCE (44.1 $\mu g/m^3$) and TCE (4.27 $\mu g/m^3$). Neither cis-1,2-dichloroethene nor vinyl chloride were detected in any sub-slab vapor sample.

Indoor air sample IAFT-1 and IAFT-2 contained PCE (1.70 $\mu g/m^3$) and (2.09 $\mu g/m^3$), respectively. Neither TCE; cis-1,2-dichloroethene; nor vinyl chloride were detected in either indoor air sample.

Absolute Pizza

Sub-slab sample SVAP-1 contained PCE (2.86 $\mu g/m^3$) and TCE (0.316 $\mu g/m^3$). Neither cis-1,2-dichloroethene nor vinyl chloride were detected in the sub-slab vapor sample.

Indoor air sample IAAP-1 contained PCE (1.82 $\mu g/m^3$). Neither TCE; cis-1,2-dichloroethene; nor vinyl chloride were detected in the indoor air sample.

Pro Cleaners and Tailors

Sub-slab sample SVSE-1 contained PCE (9.59 $\mu g/m^3$) and TCE (0.442 $\mu g/m^3$). Neither cis-1,2-dichloroethene nor vinyl chloride were detected in the sub-slab vapor sample.

No VOCs were detected in indoor air sample IASE-1. However, indoor air sample IASE-1 was reported with elevated detection limits due to low sample volume.

Lagrange Pharmacy

Sub-slab sample SVLP-1 contained PCE (213 $\mu g/m^3$) and TCE (7.44 $\mu g/m^3$). Neither cis-1,2-dichloroethene nor vinyl chloride were detected in the sub-slab vapor sample.

Indoor air sample IALP-1 contained PCE (22.9 $\mu g/m^3$); TCE (0.457 $\mu g/m^3$) and cis-1,2-dichloroethene (1.16 $\mu g/m^3$). Vinyl chloride was not detected in the indoor air sample.

State Farm

Sub-slab sample SVSF-1 contained TCE (0.395 $\mu g/m^3$). Neither PCE, cis-1,2-dichloroethene nor vinyl chloride were detected in the sub-slab vapor sample.

No VOCs were detected in indoor air sample IASF-1.

Dollar Store

No VOCs were detected in sub-slab vapor sample SVDS-1.

No VOCs were detected in indoor air sample IADS-1.

Outdoor Air

No VOCs were detected in outdoor air sample OA-7.

DISCUSSION

Freshtown Marketplace

Analytical results from the January 2007 vapor monitoring event in Freshtown Marketplace indicate a decrease of PCE and TCE in the three sub-slab vapor and two indoor air samples collected compared to the April 2005 monitoring event. Based on the NYSDOH *Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006 Decision Matrices,* PCE and TCE concentrations in Freshtown Marketplace are now classified as "no further action".

Absolute Pizza

PCE decreased by five orders of magnitude and TCE decreased by four orders of magnitude in Absolute Pizza sub-slab vapors compared to the January 2006 vapor intrusion monitoring event. Indoor air concentrations of PCE and TCE decreased by at least one order of magnitude compared to the January 2006 sampling event. Based on the NYSDOH Decision Matrices, PCE and TCE concentrations in Absolute Pizza are now classified as "no further action".

Pro Cleaners and Tailors

Pro Cleaners and Tailors experienced a decrease of PCE in sub-slab vapors compared to the January 2005 vapor intrusion monitoring event. TCE was detected in sub-slab vapors in the January 2007 sampling event, however this concentration (0.442 $\mu g/m^3$) is lower than the January 2005 laboratory detection limit (0.64 $\mu g/m^3$). PCE and TCE were not detected in indoor air samples collected in the January 2005 and 2007 sampling events. Based on the NYSDOH Decision Matrices, PCE and TCE concentrations in Pro Cleaners and Tailors require "no further action".

Lagrange Pharmacy

Lagrange Pharmacy experienced an increase of PCE and a decrease in TCE in sub-slab vapors compared to the January 2006 vapor intrusion monitoring event. Indoor air concentrations of PCE and TCE decreased compared to the January 2006 sampling event. Based on the NYSDOH Decision Matrices, PCE and TCE concentrations in Lagrange Pharmacy require "on-going monitoring" only.

State Farm

PCE was not detected in State Farm sub-slab vapors in the November 2005 and January 2007 vapor intrusion monitoring events. TCE was detected in sub-slab vapors in the January 2007 sampling event, however this concentration (0.395 $\mu g/m^3$) is lower than the November 2005 laboratory detection limit (2.66 $\mu g/m^3$). PCE and TCE were not detected in indoor air samples collected in the November 2005 and January 2007 sampling events. Based on the NYSDOH Decision Matrices, PCE and TCE concentrations in State Farm require "no further action".

Dollar Store

PCE and TCE were not detected in Dollar Store sub-slab vapors and indoor air in the November 2005 and January 2007 vapor intrusion monitoring events. Based on the NYSDOH Decision Matrices, PCE and TCE concentrations in Dollar Store require "no further action".

Outdoor Air

PCE concentrations decreased two orders of magnitude in the outdoor air sample compared to the January 2006 vapor intrusion monitoring event. TCE was not detected in the January 2006 and January 2007 outdoor air samples.

CONCLUSION

Continued operation of the groundwater remediation system and sub-slab depressurization systems has significantly lowered the vapor concentrations in the sub-slab and indoor air. Data indicates continued monitoring is appropriate at Lagrange Pharmacy and that additional mitigation measures are not required.

If you have any questions please feel free to contact me.

Sincerely,

CONRAD GEOSCIENCE CORP.

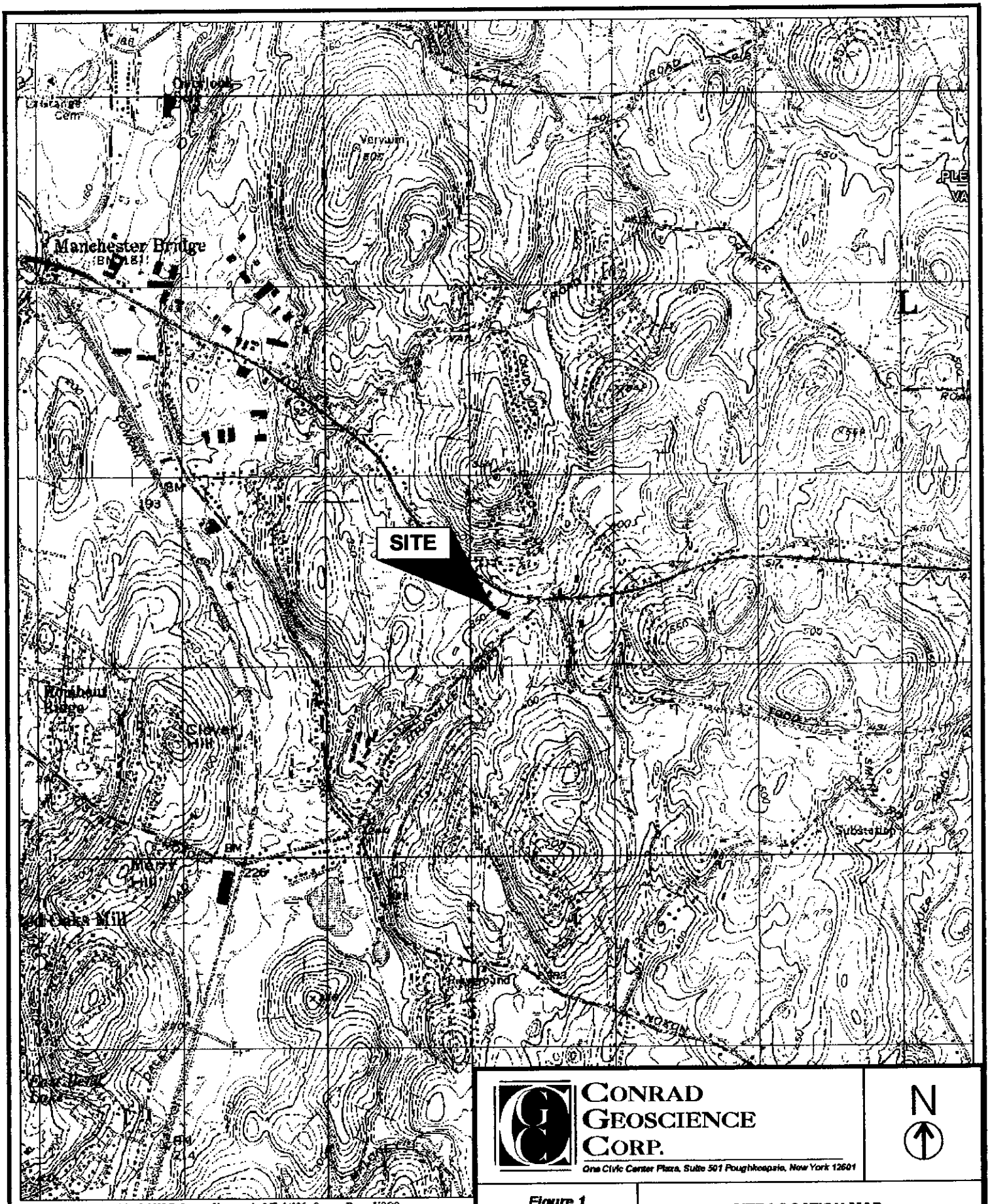
Brian P. Goodwin

Brian P. Goodwin
Geologist

BPG/seg

attachments

cc: D. Engel
J. Klein
M. Millspaugh
M. Rivara
F. Navratil
B. Dixon
D. MacDougal
J. Harmon



CONRAD GEOSCIENCE CORP.

One Civic Center Plaza, Suite 501 Poughkeepsie, New York 12601

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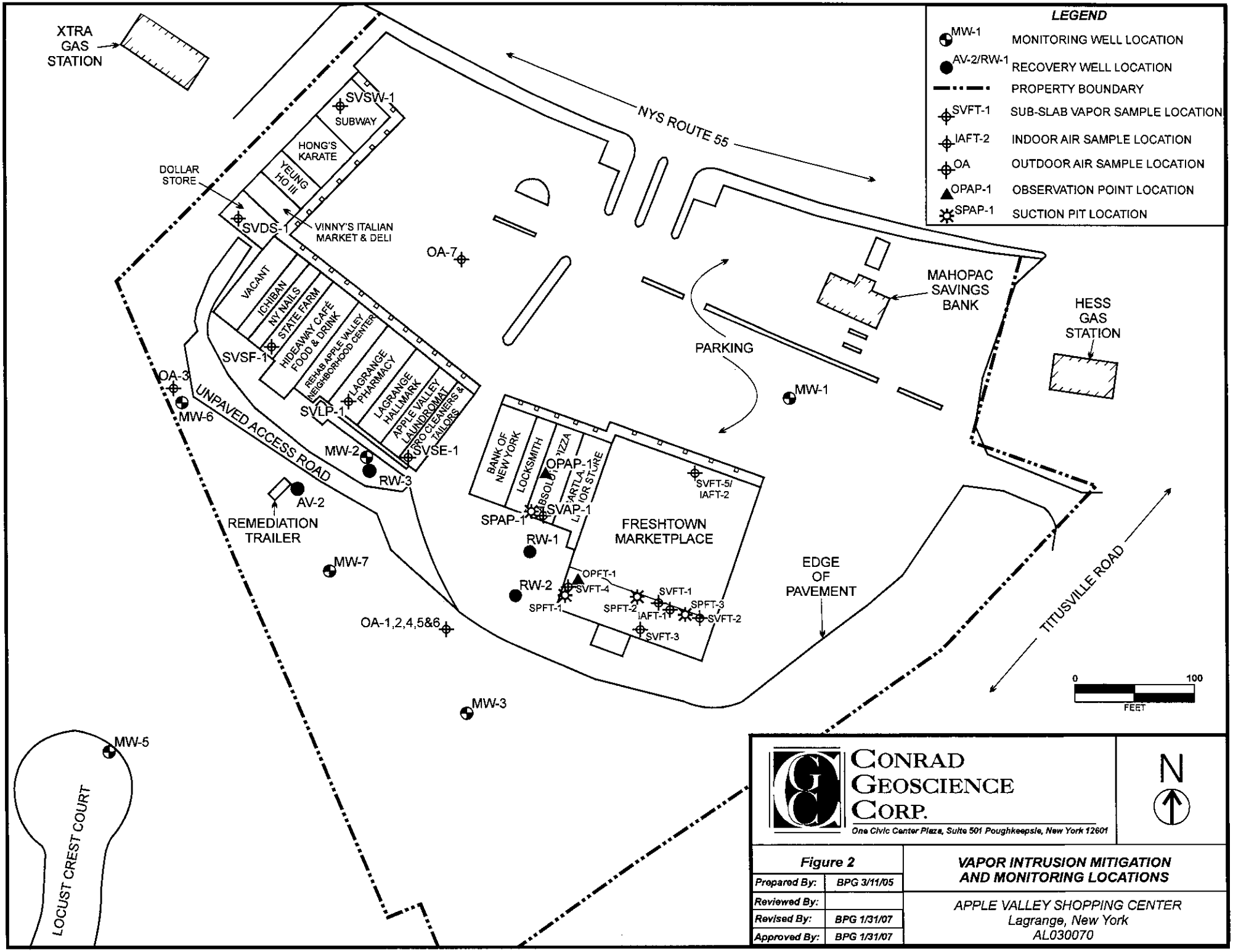
Figure 1		SITE LOCATION MAP
Prepared By:	BPG 2/9/05	
Reviewed By:		APPLE VALLEY SHOPPING CENTER Lagrange, New York AL030070
Revised By:		
Approved By:	BPG 2/9/05	


LEGEND
MW-1 MONITORING WELL LOCATION
AV-2/RW-1 RECOVERY WELL LOCATION
PROPERTY BOUNDARY
SVFT-1 SUB-SLAB VAPOR SAMPLE LOCATION
IAFT-2 INDOOR AIR SAMPLE LOCATION
OA OUTDOOR AIR SAMPLE LOCATION
OPAP-1 OBSERVATION POINT LOCATION
SPAP-1 SUCTION PIT LOCATION
XTRA GAS STATION
NYS ROUTE 55
SVSW-1
SUBWAY
HONG'S KARATE
YEUNG HO III
DOLLAR STORE
SVDS-1
VINNY'S ITALIAN MARKET & DELI
OA-7
VACANT
ICHIBAN
NY NAILS
STATE FARM
HIDEAWAY CAFÉ FOOD & DRINK
REHAB APPLE VALLEY NEIGHBORHOOD CENTER
LAGRANGE PHARMACY
LAGRANGE HALLMARK
APPLE VALLEY LAUNDROMAT
TRO CLEANERS & TAILORS
SVSF-1
SVLP-1
SVSE-1
MAHOPAC SAVINGS BANK
HESS GAS STATION
PARKING
MW-1
OA-3
MW-6
UNPAVED ACCESS ROAD
MW-2
RW-3
AV-2
REMEDIATION TRAILER
BANK OF NEW YORK
LOCKSMITH
OPAP-1
SVAP-1
SPAP-1
SVFT-5/ IAFT-2
FRESHTOWN MARKETPLACE
RW-1
MW-7
RW-2
OPFT-1
SVFT-4
SVFT-1
SPFT-1
SPFT-2
SPFT-3
IAFT-1
SVFT-2
SVFT-3
OA-1,2,4,5&6
EDGE OF PAVEMENT
TITUSVILLE ROAD
MW-3
MW-5
LOCUST CREST COURT
0
100
FEET
N
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One Civic Center Plaza, Suite 501 Poughkeepsie, New York 12601
Figure 2
VAPOR INTRUSION MITIGATION AND MONITORING LOCATIONS
Prepared By: BPG 3/11/05
Reviewed By:
Revised By: BPG 1/31/07
Approved By: BPG 1/31/07
APPLE VALLEY SHOPPING CENTER
Lagrange, New York
AL030070

Table 1. **Volatile Organic Compounds (VOCs) in Sub-Slab Vapor, Ambient Indoor Air, and Ambient Outdoor Air Samples;** USEPA TO-15; collected **January 2005 through January 2007;** Apple Valley Shopping Center, Lagrange, New York; Conrad Geoscience File #AL030070

Sample Identification		Dates Sampled	Constituent			
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
Volatile Organic Compounds						
Freshtown	SVFT-1	1-26-05	***2,500***	13	ND < 0.82	ND < 0.82
		4-29-05	***1,400***	17	ND < 1.2	ND < 1.2
		6-1-06	48.2	4.14	ND < 7.46	ND < 4.82
	SVFT-2	4-29-05	8.7	ND < 0.71	ND < 0.71	ND < 0.71
		6-1-06	10.7	2.84	ND < 1.11	ND < 0.715
	SVFT-3	4-29-05	86	3.8	ND < 0.70	ND < 0.70
		6-1-06	47.6	***7.07***	ND < 7.46	ND < 4.82
		1-16-07	24.4	1.33	ND < 0.522	ND < 0.337
	SVFT-4	4-29-05	***7,200***	***210***	260	ND < 14
		6-1-06	***386***	ND < 0.771	ND < 14.3	ND < 9.23
		1-16-07	16.4	ND < 0.249	ND < 0.392	ND < 0.253
	SVFT-5	6-1-06	***354***	***12.2***	ND < 7.46	ND < 4.82
		1-16-07	44.1	4.27	ND < 0.656	ND < 0.423
	IAFT-1	1-26-05	***9.7***	ND < 0.97	ND < 0.97	ND < 0.97
		4-29-05	***8.6***	ND < 0.74	ND < 0.74	ND < 0.74
		6-1-06	***3.47***	***0.267***	ND < 0.393	ND < 0.254
		1-16-07	1.70	ND < 0.249	ND < 0.391	ND < 0.252
	IAFT-2	6-1-06	***3.47***	***0.276***	ND < 0.393	ND < 0.254
		1-16-07	2.09	ND < 0.250	ND < 0.393	ND < 0.254

Notes: All units are ug/m^3 unless otherwise noted;
SV prefix represents sub-slab vapor samples;
Boldface and italic type indicates need for ongoing monitoring or other action, as per attached matrix.
IA prefix represents ambient indoor air samples.

Table 1 cont'd. **Volatile Organic Compounds (VOCs) in Sub-Slab Vapor, Ambient Indoor Air, and Ambient Outdoor Air Samples;** USEPA TO-15; collected **January 2005 through January 2007;** Apple Valley Shopping Center, Lagrange, New York; Conrad Geoscience File #AL030070

Sample Identification		Dates Sampled	Constituent			
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
Volatile Organic Compounds						
Absolute Pizza	SVAP-1	1-26-05	***160***	3.6	ND < 0.79	ND < 0.79
		1-17-06	***307,000E***	***8,990E***	277	ND < 1.27
		6-1-06	***119,000E***	***3,550E***	269	ND < 5.07
		8-7-06	***20,800E***	***643E***	34.5	ND < 7.25
		1-16-07	2.86	0.316	ND < 0.483	ND < 0.312
	IAAP-1	1-26-05	***26***	ND < 0.84	ND < 0.84	ND < 0.84
		1-17-06	***584E***	***7.39***	ND < 1.96	ND < 1.27
		6-1-06	***57.1***	***1.38***	ND < 2.49	ND < 1.61
		8-7-06	***44.7***	ND < 4.05	ND < 11.2	ND < 7.25
		1-16-07	1.82	ND < 0.294	ND < 0.463	ND < 0.299

Notes: All units are ug/m^3 unless otherwise noted;
SV prefix represents sub-slab vapor samples;
Boldface and italic type indicates need for ongoing monitoring or other action, as per attached matrix.
IA prefix represents ambient indoor air samples;
E = Exceeds calibration range.

Table 1 cont'd. **Volatile Organic Compounds (VOCs) in Sub-Slab Vapor, Ambient Indoor Air, and Ambient Outdoor Air Samples;** USEPA TO-15; collected **January 2005 through January 2007;** Apple Valley Shopping Center, Lagrange, New York; Conrad Geoscience File #AL030070

Sample Identification		Dates Sampled	Constituent			
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
Volatile Organic Compounds						
Pro Cleaners and Tailors	SVSE-1	1-26-05	14	ND < 0.64	ND < 0.64	ND < 0.64
		6-1-06	64.8	8.67	ND < 7.85	ND < 5.07
		1-16-07	9.59	0.442	ND < 0.393	ND < 0.254
	IASE-1	1-26-05	ND < 0.69	ND < 0.69	ND < 0.69	ND < 0.69
		6-1-06	1.23	0.248	ND < 0.392	ND < 0.253
		1-16-07	ND < 8.92	ND < 3.33	ND < 5.22	ND < 3.37
Lagrange Pharmacy	SVLP-1	1-26-05	***220***	10	ND < 0.85	ND < 0.85
		1-17-06	***166***	***42.1***	4.67	ND < 1.27
		6-1-06	***235***	***17.0***	ND < 7.85	ND < 5.07
		1-16-07	***213***	***7.44***	ND < 7.46	ND < 4.82
	IALP-1	1-26-05	1.5	ND < 1.5	ND < 1.5	ND < 1.5
		1-17-06	***172***	4.62	ND < 1.96	ND < 1.27
		6-1-06	1.18	***0.261***	ND < 0.392	ND < 0.253
		1-16-07	***22.9***	***0.457***	1.16	ND < 0.330

Notes: All units are ug/m^3 unless otherwise noted;
SV prefix represents sub-slab vapor samples;
Boldface and italic type indicates need for ongoing monitoring or other action, as per attached matrix.
IA prefix represents ambient indoor air samples;
E = Exceeds calibration range.

Table 1 cont'd. **Volatile Organic Compounds (VOCs) in Sub-Slab Vapor, Ambient Indoor Air, and Ambient Outdoor Air Samples;** USEPA TO-15; collected **January 2005 through January 2007;** Apple Valley Shopping Center, Lagrange, New York; Conrad Geoscience File #AL030070

Sample Identification		Dates Sampled	Constituent			
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
Volatile Organic Compounds						
State Farm	SVSF-1	11-29-05	ND < 3.35	ND < 2.66	ND < 1.96	ND < 1.27
		6-1-06	ND < 13.4	12.5	ND < 7.85	ND < 5.07
		1-16-07	ND < 0.731	0.395	ND < 0.428	ND < 0.276
	IASF-1	11-29-05	ND < 3.35	ND < 2.66	ND < 1.96	ND < 1.27
		6-1-06	6.77	ND < 0.0212	ND < 0.392	ND < 0.253
		1-16-07	ND < 0.805	ND < 0.301	ND < 0.471	ND < 0.304
Dollar Store	SVDS-1	11-29-05	ND < 3.35	ND < 2.66	ND < 1.96	ND < 1.27
		6-1-06	3.82	***9.15***	ND < 1.45	ND < 0.938
		1-16-07	ND < 0.765	ND < 0.286	ND < 0.448	ND < 0.289
	IADS-1	11-29-05	ND < 3.35	ND < 2.66	ND < 1.96	ND < 1.27
		6-1-06	0.420	***1.41***	4.87	ND < 0.254
		1-16-07	ND < 0.704	ND < 0.262	ND < 0.412	ND < 0.266
Subway	SVSW-1	11-29-05	3.94	ND < 2.66	ND < 1.96	ND < 1.27
		6-1-06	ND < 12.7	5.15	ND < 7.46	ND < 4.82
	IASW-1	11-29-05	ND < 3.35	ND < 2.66	ND < 1.96	ND < 1.27
		6-1-06	1.53	ND < 0.221	ND < 0.408	ND < 0.264

Notes: All units are ug/m^3 unless otherwise noted;
SV prefix represents sub-slab vapor samples;
Boldface and italic type indicates need for ongoing monitoring or other action, as per attached matrix.
IA prefix represents ambient indoor air samples.

Table 1 cont'd. **Volatile Organic Compounds (VOCs) in Sub-Slab Vapor, Ambient Indoor Air, and Ambient Outdoor Air Samples**; USEPA TO-15; collected **January 2005 through January 2007;** Apple Valley Shopping Center, Lagrange, New York; Conrad Geoscience File #AL030070

Sample Identification		Dates Sampled	Constituent			
			Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride
Volatile Organic Compounds						
Outdoor Air	OA-1	1-26-05	ND < 0.69	ND < 0.69	ND < 0.69	ND < 0.69
	OA-2	4-29-05	ND < 0.72	ND < 0.72	ND < 0.72	ND < 0.72
	OA-3	11-29-05	ND < 3.35	ND < 2.66	ND < 1.96	ND < 1.27
	OA-4	1-17-06	10.5	ND < 2.66	ND < 1.96	ND < 1.27
	OA-5	6-1-06	530	12.4	ND < 7.85	ND < 5.07
	OA-6	8-7-06	1.77	ND < 0.242	ND < 0.671	ND < 0.434
	OA-7	1-16-07	ND < 0.669	ND < 0.249	ND < 0.392	ND < 0.253

Notes: All units are ug/m^3 unless otherwise noted;
Boldface and italic type indicates need for ongoing monitoring or other action, as per attached matrix.
OA prefix represents ambient outdoor air samples.

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name: Brian Goodwin Date/Time Prepared: 1/11/07 9:35AM
Preparer's Affiliation: Conrad Geoscience Phone No: 845-454-2544
Purpose of Investigation: Vapor Intrusion Monitoring – Apple Valley Shopping Center

1. OCCUPANT:
Interviewed: Yes
Last Name: Akkawi First Name: Salim
Address: 702 Freedom Plains Rd., Poughkeepsie, NY 12603
County: Dutchess
Home Phone: Office Phone: 845-849-1314
Number of Occupants/persons at this location: 2 Age of Occupants: 49

2. OWNER OR LANDLORD: (Check if same as occupant ___) **Interviewed: No**
Last Name: Katz First Name: Daniel
Address: 444 South Fulton Avenue, Mount Vernon, NY 10553
County: Westchester
Home Phone: Office Phone: 914-667-6400

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	Commercial/Multi-use
Industrial	Church	Other:

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:

If multiple units, how many? ____

If the property is commercial, type?
Business Type(s) Organic Dry Cleaner
Does it include residences (i.e., multi-use)? Y / N If yes, how many? ____

Other characteristics:
Number of floors: 1 Building age: 1960's
Is the building insulated? Yes How air tight? Tight / Average / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Air current tubes and tracer smoke were not used to evaluate airflow patterns.
Airflow between floors: Only one floor.
Airflow near source: Sub-slab vapor sample port is in rear of store. Sample port is in boiler room.
Electric heat blows through ceiling ducts and vents.
Outdoor air infiltration: Infiltrates through front, rear and side doors.
Infiltration into air ducts: Duct work is in ceiling.

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

No basement present. Slab-on-grade construction.

a. Above grade construction:	wood frame	concrete	stone	brick
b. Basement type:	full	crawlspace	slab	other _____
c. Basement floor:	concrete	dirt	stone	other _____
d. Basement floor:	uncovered	covered	covered with _____	
e. Concrete floor:	unsealed	sealed	sealed with tile and carpet	
f. Foundation walls:	poured	block	stone	other _____
g. Foundation walls:	unsealed	sealed	sealed with _____	
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially finished	
j. Sump present?	Y / N			
k. Water in sump?	Y / N / not applicable			

Basement/Lowest level depth below grade:_____(feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)
No floor cracks were present due to new carpet and tile.

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove with gas insert	Outdoor wood boiler	Other _____

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Natural Gas

Boiler/furnace located in: Basement Outdoors Main Floor Other_____

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? Y / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram. Vents and ducts are in ceiling.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Basement: _____

1st Floor: Store operations: pickup/dropoff, cleaning, pressing and alterations

2nd Floor: _____

3rd Floor: _____

4th Floor: _____

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?	Y / N
b. Does the garage have a separate heating unit?	Y / N / NA
c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)	Y / N / NA Please specify_____
d. Has the building ever had a fire?	Y / N When?_____
e. Is a kerosene or unvented gas space heater present?	Y / N Where? _____
f. Is there a workshop or hobby/craft area?	Y / N Where & Type? _____
g. Is there smoking in the building?	Y / N How frequently? _____
h. Have cleaning products been used recently?	Y / N When & Type? Daily
i. Have cosmetic products been used recently?	Y / N When & Type? _____
j. Has painting/staining been done in the last 6 months?	Y / N Where & When? Front to middle of store
k. Is there new carpet, drapes or other textiles?	Y / N Where & When? 2-4 months ago. Front to middle of store.
l. Have air fresheners been used recently?	Y / N When & Type? Everyday
m. Is there a kitchen exhaust fan?	Y / N If yes, where vented? Through roof
n. Is there a bathroom exhaust fan?	Y / N If yes, where vented? Outside – Fans currently not working
o. Is there a clothes dryer?	Y / N If yes, is it vented outside? Y / N
p. Has there been a pesticide application?	Y / N When & Type?_____

Are there odors in the building? Y / N

If yes, please describe: _____

Do any of the building occupants use solvents at work? Y / N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? Hydrocarbon solvent
If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)	No
Yes, use dry-cleaning infrequently (monthly or less)	Unknown
Yes, work at a dry-cleaning service	

Is there a radon mitigation system for the building/structure? Y / N Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply:	Public Water	Drilled Well	Driven Well	Dug Well	Other: _____
Sewage Disposal:	Public Sewer	Septic Tank	Leach Field	Dry Well	Other: _____

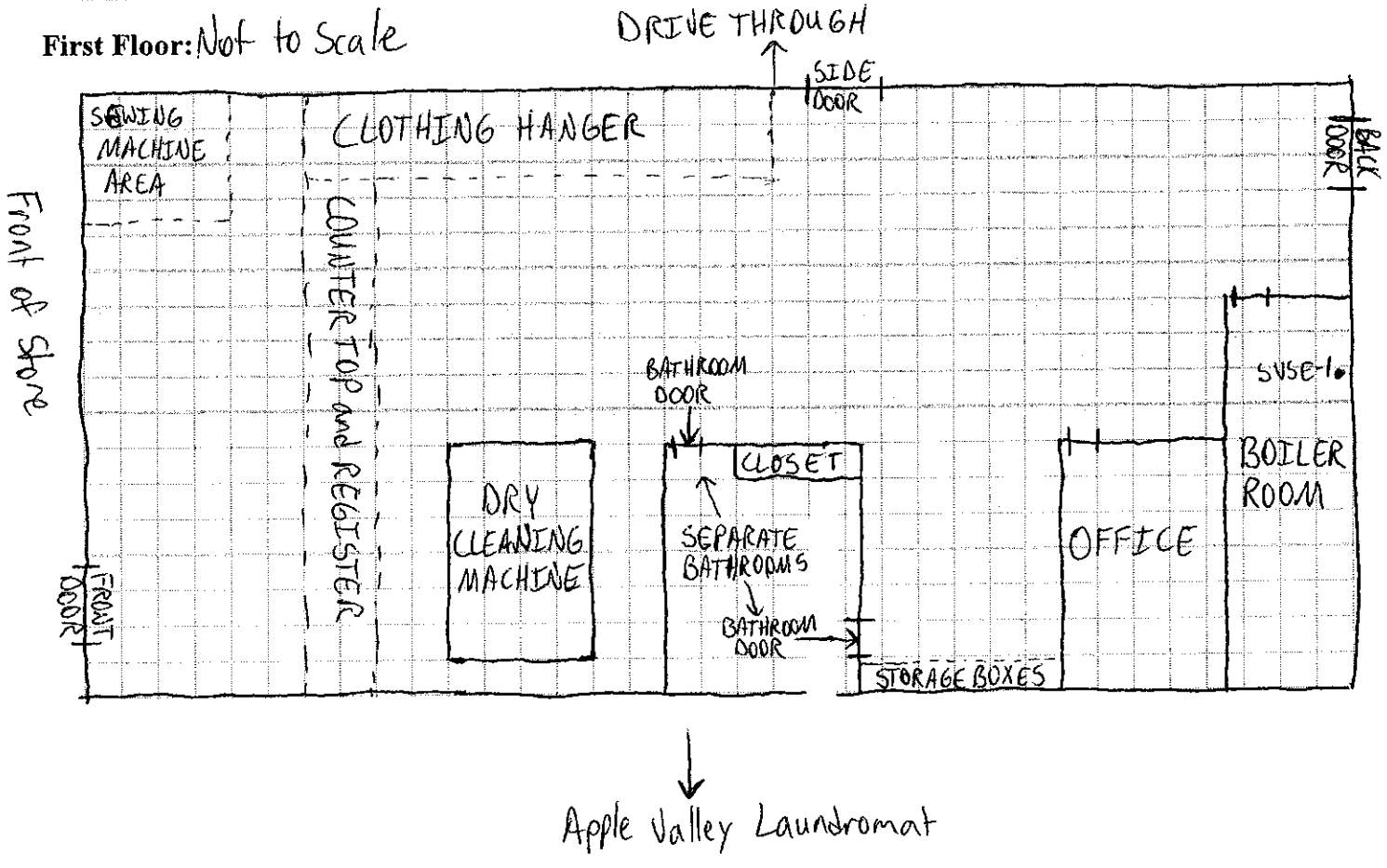
10. RELOCATION INFORMATION (for oil spill residential emergency)
a. Provide reasons why relocation is recommended: _____
b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel
c. Responsibility for costs associated with reimbursement explained? Y / N
d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

First Floor: Not to Scale



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

See Figure 2.

13. PRODUCT INVENTORY FORM – PRO CLEANERS AND TAILORS

Make & Model of field instrument used: _____

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Quantity	Photo ** Y / N
Cleaning Machine	DF2000 (hydrocarbon solvent)	55 gal.	U	Sythetic aliphatic hydrocarbon hydrotreated	110 gal.	N
Cleaning Machine	Frankotex FreshDF (soap)	1 gal.	U & UO	Isoalkanes, dioctyl sodium sulfosuccinate, dipropylene glycol monomethyl ether, isononylphenol, oxethylated	2	N
Storage Area	Solvex 1 (spotting agent for stains)	1 gal.	U	Isoparafins, linear alkyl benzenesulfonic acid salt, dipropylene glycol monomethyl ether	1	N
Storage Area	Solvex 2 (spotting agent for stains)	1 gal.	U	Linear alkyl benzenesulfonic acid salt, diethylene glycol monobutyl ether, potassium oleate, isoalkanes, ammonium hydroxide	1	N
Storage Area	Solvex 3 (spotting agent for stains)	460 mL	U	Dipropylen glycol monomethylether, linear alkyl benzenesulfonic acid salt, alkyl dimethylbenzyl ammonium chloride, isononylphenol, oxethylated, 2-ethyl-1-hexande, oxethylated, phosphated	1	N
Storage Area	Polyspot KWV (prespotting agent for hydrocarbon solvent)	1 gal.	U	Isoparaffins, monoalkylbenzene, sodium petroleum sulfonate, isononylphenol, oxethylated, diethylene glycol monobutylether	1	N
Storage Area	Cleaner's Supply Professional Sizing and Starch	1 gal.	U	Liquid starch	1	N
Storage Area	RustGo	14 oz.	U	Hydrofluoric acid solution	1	N

- Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)** ** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory-Form)
Form Approved
OMB No. 1218-0072

IDENTITY *(As Used on Label and List)*
DF 2000 Fluid

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

NA = Not Applicable NIA = No Information Available

Section I – Identity

Manufacturer's Name
Exxon Chemical Company

Address *(Number, Street, City, State, and ZIP Code)*
PO Box 3272

Houston TX 77253-3272

Chemical Family
Aliphatic Hydrocarbon

Emergency Telephone Number
800 424-9300

Telephone Number For Information
281 870-6000

Date Prepared
Feb 27, 2003

Signature of Preparer *(optional)*

Section II – Hazardous Ingredients

Chemical Identity; Common Name(s)	CAS #	OSHA PEL	ACGIH TLV	Other Limits	%(optional)
Synthetic Aliphatic Hydrocarbon Hydrotreated	CAS 64742-48-9				

Section III – Physical Data

Boiling Point	376 to 401'F	Specific Gravity (H_20=1)	.77 @ 60'F
Vapor Pressure (mm Hg.)	.49@ 68' F	Melting Point	Less than -76'F
Vapor Density (AIR=1)	5.9	Evaporation Rate (Butyl Acetate = 1)	Less than .1
pH ,1%		% Voatile	

Solubility In Water- less than .01 at 77'F- Viscosity 2.1cSt at 77'F approximate

Appearance and Odor

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
147 degrees- method TCC ASTM D56		1.3	8.8@ 77 Deg F

Extinguishing Media- use water spray to cool fire exposed surfaces and to protect personnel. Isolate 'fuel' supply from fire. Use foam, dry chemical, or water spray to extinguish fire. Avoid spraying water directly into storage containers due to danger of boilover. This liquid is volatile and gives off invisible vapors. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they might ignite or explode

General Hazard: combustible liquid, can form combustible mixtures at temperatures at or above flashpoint. Static Discharge, material can accumulate static charges which can cause an incendiary electrical discharge. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut , weld, braze, solder, drill, grind, or expose such containers to heat , flame, spark, static electricity or other sources of ignition; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly returned to drum recondtioner, or properly disposed of.

Unusual Fire and Explosion Hazards
Autoignition temperature: 640 deg F ; No unusual decomposition products under fire conditions.

Section V – Physical Hazards / Reactivity Data

Stability	Unstable		Conditions to avoid instability- not applicable
	Stable	X	

Incompatibility (*Materials to Avoid*)

Hazardous Decomposition or Byproducts- none

Hazardous Polymerization	May Occur		Conditions to Avoid- strong oxidizing agents
	Will Not Occur	X	

Section VI – Health Hazard Data

Routes(s) of Entry: Inhalation? yes Skin? yes Ingestion? yes

Health Hazards (*Acute and Chronic*)

Carcinogenicity: NTP? IARC Monographs? OSHA Regulated?

Signs and Symptoms of Exposure- eye contact: slightly irritating but does not damage eye tissue Skin contact- low order of toxicity, frequent or prolonged contact may aggravate an existing dermatitis condition. Inhalation- high vapor/aerosol concentrations (attainable at elevated temperatures well above ambient) are irritating to the eyes and the respiratory tract and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervouse system effects, including death. Ingestion- small amounts of this product aspirated into the respiratory system during ingestion of vomiting may cause mild to severe pulmonary injury, possibly progressing to death. Minimal toxicity.

Medical Conditions Generally Aggravated by Exposure

Section VII – First Aid Measures

1. Inhalation- using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

2. Eyes- flush eyes with large amounts of water until irritation subdues. If irritation persists, get medical attention.

3. Skin- flush with large amounts of water, use soap if available. Remove grossly contaminated clothing, including shoes and launder before reuse.

Section VIII – Preventitive Measures

Respiratory Protection (*Specify Type*) Where concentrations in the air may exceeed the limits given in this section and engineering, work practice or other means of exposure reduction are not adequate, NIOSH approved respirators may be necessary to prevent over exposure by inhalation.

Ventilation	Local Exhaust- the use of local exhaust ventilation is reccommeded to control process emissions near source. Laboratory Samples should be handled in a lab hood. Provide mechanical ventilation of confined spaces	
	Mechanical (*General*)	Other
Protective Gloves- for open systems where contact is likely wear chemical resistant gloves and long sleeves		Eye Protection- for open systems where contact is likely wear safety glasses with side shields

Other Protective Clothing or Equipment

Workplace Exposure Guidelines:
TWA of 1200 mg/m3 (171ppm) based on total hydrocarbon

Section IX – Special Precautions / Spill Leak Procedures

Steps to Be Taken in Case Material is Released or Spilled
Land Spill: Eliminate sources of ignition. Prevent additional discharge of material, if possible to do without hazard. For small spills implement cleanup procedures, for large spills implement cleanup procedures and if in the public area, keep public away and advise authorities. Also if this product is subject to CERCLA reporting notify the National Response Center. Prevent liquid from entering sewers, watercourses, or low areas. Contain spilled liquid with sand or earth. Do not use combustible materials such as sawdust. Reover by pumping (use explosion proof or hand pump) or with a suitaqble absorbent. Consult an expert on disposal of recovered materials and ensure conformity to local disposal regulations.
Water Spill: Eliminate sources of ignition. Warn occupants and shipping in surrounding and downwind areas of fire and explosion hazard and request all to stay clear. Remove from surface by skimming or with suitable absorbants. If allowed by local authorities and environmental agencies, sinking and/or suitable dispersants may be used in non-confined waters. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations

Waste Disposal Method

Precautions to Be Taking in Handling and Storing- Electrostatic accumulation hazard: Yes, use proper bonding and/or grounding procedure. Additional information regarding safe handling of products with static accumulation potential can be ordered by contacting the American Petroleum Institute APT for APT Recommended Practice 2003 entitle "Protection Against Ignitions Arising Out of Static, Lightning, and stray currents. American Petroleum Institute 1220 L Street Northwest, Wshington DC 20005 or the National Fire Protection Agency NFPA 77 entitled Static Electricity. NFPA 1 Batterymarch Park, PO Box 9101, Quincy MA 02269-9101

Other Precautions- Storage Temperature- Ambient
Loading and Unloading Temperature – Ambient
Storage and Transport Pressure-mmHg: Atomospheric
Loading and unloading Viscosity, cSt: 2.0
Storage and Handling:
Keep Container Closed. Handle and open containers with care. Store in a cool well ventilated place away from incompatible materials. Do not handle or store near an open flame, heat, or other sources of ignition. Protect material from direct sunlight. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures. Do NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. Do NOT reuse empty containers without commercial cleaning or reconditioning.

Section X– Other Information

DOT:
Petroleum Distillate N.O.S., UN1268 III- in containers of 119 gallons or less not regulated by DOT
TSCA:
This product is listed at CAS Registry Number 64742-48-9
CERCLA:
This product is classified as an oil under Section 311 of the Ckean Water Act (40 CFR110) and the Oil Pollution Act of 1990. Discharge or spills which produce a visible sheen on either surface water, or in waterways/sewers which lead to surface water, must be reported to the National Response Center at 800 424-8802
If this product is accidently spilled, it is not subject to any special reporting under the requirements of the Comprehensive Environmental Response Compensation, and Liabilities Act (CERCLA). We recommend you contact local authorities to determine if there may be local reporting requirements.
SARA TITLE III:
Under the provisions of Title III, Sections 311/312 of the SuperFund Amendments abd Reautthorization Act, this product is classified into the following categories: FIRE
This information may be subject to the provisions of the Community Right To Know Reporting Requirements (40 CFR 370) if threshold criteria are met.

Notes:
Care must be taken to ensure garments cleaned with solvents are completely dry before being worn. Drycleaning solvent not totallt removed from absorbent clothing (e.g. shoulder pads, waist bands, etc.) that remain in contact with skin for prolonged periods may cause skin irritation including redness, swelling, and possibly blistering.\
Contains approximately 10ppm BRT as an antioxidant to protect product quality.

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 03/23/2004 Reviewed on 03/23/2004

*
1 Identification of substance:

· **Product details:**

· **Trade name: Frankotex DF**

· **Application of the substance / the preparation** Drycleaning / Laundry

· **Manufacturer/Supplier:**
SEITZ GmbH
Gutenbergstrasse 3
65830 Kriftel/ Germany
seitz@seitz24.com
www.seitz24.com

· **Information department:**
CHEM-TEL Inc.
1305 North Florida Ave
Tampa Florida 33602

· **Emergency information:** 1-800-255-3924

*
2 Composition/Data on components:

· **Chemical characterization**

· **Description:** Mixture of the substances listed below with non-hazardous ingredients.

· CAS-No.	Components:	
68551-17-7	isoparaffins	20 - 50%
577-11-7	diisooctyl sodium sulfosuccinate	10 - 20%
34590-94-8	dipropylene glycol monomethyl ether	< 10%
37205-87-1	isononylphenol, oxethylated	< 5%

3 Hazards identification

· **Hazard description:**
Irritant liquid

Irritant

· **Information pertaining to particular dangers for man and environment**
R 38 Irritating to skin.
R 41 Risk of serious damage to eyes.

· **Classification system**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· **NFPA ratings (scale 0-4)**

Health = 2
Fire = 2
Reactivity = 0

4 First aid measures

· **General information**
Immediately remove any clothing soiled by the product.
Remove casualties from exposure.
Keep unprotected persons away.

· **After inhalation** Supply fresh air; consult doctor in case of complaints.

(Contd. on page 2)

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 03/23/2004 Reviewed on 03/23/2004

Trade name: Frankotex DF

(Contd. of page 1)

· **After skin contact**
Immediately rinse with water.
If skin irritation continues, consult a doctor.
· **After eye contact**
Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; immediately call for medical help.

*
5 Fire fighting measures

· **Suitable extinguishing agents**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **For safety reasons unsuitable extinguishing agents** Water with full jet.
· **Special hazards caused by the material, its products of combustion or resulting gases:**
In case of fire, the following can be released:
Carbon monoxide and carbon dioxide (CO,CO2)
Sulphur oxides (SOX)
In certain fire conditions, traces of other toxic gases cannot be excluded.
· **Protective equipment:**
Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
· **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

· **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Do not breathe gases / vapors.
Avoid contact with eyes and skin.
· **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
· **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the collected material according to regulations.

7 Handling and storage

· **Handling**
· **Information for safe handling:**
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Avoid contact with eyes and skin.
· **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.

· **Storage**
· **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
Unsuitable container material: PS
Unsuitable container material: caoutchouc
Suitable container material: PE, PP, PES
· **Information about storage in one common storage facility:** Store away from foodstuffs.

(Contd. on page 3)

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 03/23/2004 Reviewed on 03/23/2004

Trade name: Frankotex DF

(Contd. of page 2)

· **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Protect from frost.
Time of storage: max. 18 month

8 Exposure controls and personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Components with limit values that require monitoring at the workplace:**	
34590-94-8 dipropylene glycol monomethyl ether	
PEL	600 mg/m³, 100 ppm Skin
REL	Short-term value: 900 mg/m³, 150 ppm Long-term value: 600 mg/m³, 100 ppm
TLV	Short-term value: 909 mg/m³, 150 ppm Long-term value: 606 mg/m³, 100 ppm Skin

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment**
· **General protective and hygienic measures**
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Do not inhale gases / vapors / aerosols.
Do not eat, drink, smoke or sniff while working.
· **Breathing equipment:**
Not necessary if room is well-ventilated.
Use suitable respiratory protective device in case of insufficient ventilation.
· **Protection of hands:**
Protective gloves.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
· **Material of gloves**
Nitrile rubber, NBR
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye protection:** Tightly sealed goggles.
· **Body protection:** Protective work clothing.

*

9 Physical and chemical properties:

· **General Information**	
Form:	Fluid
Color:	Light yellow
Odor:	Product specific

(Contd. on page 4)

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 03/23/2004 Reviewed on 03/23/2004

Trade name: Frankotex DF

(Contd. of page 3)

· **Change in condition**	
Melting point/Melting range:	undetermined
Boiling point/Boiling range:	undetermined
· **Flash point:**	> 62°C (> 144°F) (ASTM D93 c.c)
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.
· **Density at 20°C (68°F):**	0.900 - 0.910 g/cm³ (ISO 2811)
· **Solubility in / Miscibility with Water:**	Not miscible or difficult to mix
· **pH-value (100 g/l) at 20°C (68°F):**	7.1 - 7.4

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **Dangerous reactions** Reacts with oxidizing agents
· **Dangerous products of decomposition:** No dangerous decomposition products known

*
11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
68551-17-7 isoparaffins		
Oral	LD50	34600 mg/kg (rat)
Dermal	LD50	15400 mg/kg (rabbit)
577-11-7 diisooctyl sodium sulfosuccinate		
Oral	LD50	> 2000 mg/kg (rat)
34590-94-8 dipropylene glycol monomethyl ether		
Oral	LD50	5130 mg/kg (rat)
Dermal	LD50	> 19000 mg/kg (rabbit)
37205-87-1 isononylphenol, oxethylated		
Oral	LD50	> 2000 mg/kg (rat)

· **Primary irritant effect:**
· **on the skin:** Irritant to skin and mucous membranes.
· **on the eye:** Strong irritant with the danger of severe eye injury.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information:

· **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water.

(Contd. on page 5)

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 03/23/2004 Reviewed on 03/23/2004

Trade name: Frankotex DF

(Contd. of page 4)

Do not allow product to reach ground water, water course or sewage system.
At present there are no ecotoxicological assessments.

13 Waste Disposal Method

· **Product and uncleaned packagings:**
· **Recommendation:**
Contaminated adsorbent, soil, water must be disposed of in a permitted hazardous waste management facility. Recovered products may be reused, reprocessed or incinerated or must be treated in a permitted hazardous waste management facility. It is your duty to dispose of the chemical materials and/or their containers in accordance with the Clean Air Act, The Clean Water Act, RCRA, as well as applicable Federal, State, and local Regulations regarding disposal.

*

14 Transport information

· **DOT regulations:**
· **Hazard class:** -

· **Land transport ADR/RID (cross-border)**
· **ADR/RID class:** -

· **Maritime transport IMDG:**
· **IMDG Class:** -

· **Air transport ICAO-TI and IATA-DGR:**
· **ICAO/IATA Class:** -

*

15 Regulatory information (Not meant to be all-inclusive/selected regulations represented)

· **Product related hazard informations:**
The product has been marked in accordance with national laws.
Observe the general safety regulations when handling chemicals

· **Hazard symbols:**
Irritant

· **Risk phrases:**
38 Irritating to skin.
41 Risk of serious damage to eyes.

· **Safety phrases:**
2 Keep out of the reach of children.
20 When using do not eat or drink.
24/25 Avoid contact with skin and eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
37/39 Wear suitable gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately.
46 If swallowed, seek medical advice immediately and show this container or label.
· **National regulations**

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
· **Other regulations, limitations and prohibitive regulations**
The product has been designed for professional use only.

(Contd. on page 6)

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 03/23/2004 Reviewed on 03/23/2004

Trade name: Frankotex DF

(Contd. of page 5)

· **Please note:**
The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another. It is the buyers responsibility to ensure that their activities comply with Federal, State or provincial and local laws. The following specific information is made for the purpose of complying with numerous laws and regulations.

· **U.S. Regulations**

· **EPA (Environmental Protection Agency)**
None of the ingredients is listed.

· **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.

· **NTP (National Toxicology Program)**
None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**
None of the ingredients is listed.

· **MAK (German Maximum Workplace Concentration)**
None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

· **SARA Section 355 (extremely hazardous substances)**
None of the ingredients is listed.

· **SARA Section 313 (specific toxic chemical listings)**
None of the ingredients is listed.

· **Toxic Substances Control Act (TSCA):**
All ingredients are listed.

· **California proposition 65:**

· **Prop 65 - Chemicals known to cause cancer**
None of the ingredients is listed.

· **Prop 65 - Chemicals known to cause reproductive toxicity**
None of the ingredients is listed.

· **State right-to-know**
The following product component(s)is/are cited on certain State lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

· **CAS-No.: Chemical name: LIST:**
34590-94-8 dipropylene glycol monomethyl ether NY/PA

· **OSHA hazard communication standard:**
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

· **Comprehensive Environmental Response Compensation and Liability Act (CERCLA, or Superfund):**
This product contains the following substance(s) listed as "Hazardous Substances" under CERCLA, which may require reporting of releases:

· **CAS-No.: Chemical name:** void

· **Canadian regulations**

· **WHMIS information:**
The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:
D2B - Eye and/or skin irritant

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 03/23/2004 Reviewed on 03/23/2004

Trade name: Frankotex DF

(Contd. of page 6)

B3 - Combustible liquid

· **CPR statement:**
This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

· **Hazardous products act information:**
This produkt contains the following ingredient(s) which are Controlled Products and/or on the Ingredients Disclosure List (Canadian HPA section 13 and 14):

· **Canadian Ingredient disclosure list**

· **Limit 0,1%**	
None of the ingredients is listed.	

· **Limit 1%**	
577-11-7	diisooctyl sodium sulfosuccinate
34590-94-8	dipropylene glycol monomethyl ether

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Contact:** Dr. Ralf Döring
· *** Data compared to the previous version altered.**

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 03/03/2004 Reviewed on 03/03/2004

*
1 Identification of substance:

· **Product details:**

· **Trade name: Solvex 1**

· **Application of the substance / the preparation** Drycleaning / Laundry

· **Manufacturer/Supplier:**
SEITZ GmbH
Gutenbergstrasse 3
65830 Kriftel/ Germany
seitz@seitz24.com
www.seitz24.com

· **Information department:**
CHEM-TEL Inc.
1305 North Florida Ave
Tampa Florida 33602

· **Emergency information:** 1-800-255-3924

*
2 Composition/Data on components:

· **Chemical characterization**

· **Description:** Mixture of the substances listed below with non-hazardous ingredients.

· CAS-No.	Components:	
68551-17-7	isoparaffins	20 - 50%
68411-30-3	linear alkyl benzenesulfonic acid salt	10 - 20%
34590-94-8	dipropylene glycol monomethyl ether	< 5%

3 Hazards identification

· **Hazard description:**
Irritant liquid

Irritant

· **Information pertaining to particular dangers for man and environment**
R 38 Irritating to skin.
R 41 Risk of serious damage to eyes.

· **Classification system**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· **NFPA ratings (scale 0-4)**

Health = 2
Fire = 2
Reactivity = 0

4 First aid measures

· **General information**
Immediately remove any clothing soiled by the product.
Remove casualties from exposure.
Keep unprotected persons away.

· **After inhalation** Supply fresh air; consult doctor in case of complaints.

(Contd. on page 2)

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 03/03/2004 Reviewed on 03/03/2004

Trade name: Solvex 1

(Contd. of page 1)

· **After skin contact**
Immediately rinse with water.
If skin irritation continues, consult a doctor.
· **After eye contact**
Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; immediately call for medical help.

5 Fire fighting measures

· **Suitable extinguishing agents**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **For safety reasons unsuitable extinguishing agents** Water with full jet.
· **Special hazards caused by the material, its products of combustion or resulting gases:**
In case of fire, the following can be released:
Carbon monoxide and carbon dioxide (CO,CO2)
Sulphur oxides (SOX)
Nitrogen oxides (NOx)
In certain fire conditions, traces of other toxic gases cannot be excluded.
· **Protective equipment:**
Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
· **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

· **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Avoid contact with eyes and skin.
· **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
· **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the collected material according to regulations.

7 Handling and storage

· **Handling**
· **Information for safe handling:**
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Avoid contact with eyes and skin.
· **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.

· **Storage**
· **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
· **Information about storage in one common storage facility:** Store away from foodstuffs.
· **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Protect from frost.

(Contd. on page 3)

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 03/03/2004 Reviewed on 03/03/2004

Trade name: Solvex 1

(Contd. of page 2)

Time of storage: max. 18 month

8 Exposure controls and personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Components with limit values that require monitoring at the workplace:**	
34590-94-8 dipropylene glycol monomethyl ether	
PEL	600 mg/m³, 100 ppm Skin
REL	Short-term value: 900 mg/m³, 150 ppm Long-term value: 600 mg/m³, 100 ppm
TLV	Short-term value: 909 mg/m³, 150 ppm Long-term value: 606 mg/m³, 100 ppm Skin

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment**
· **General protective and hygienic measures**
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Do not inhale gases / vapors / aerosols.
Use skin protection cream for skin protection.
Do not eat, drink, smoke or sniff while working.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
· **Breathing equipment:**
Not necessary if room is well-ventilated.
Use suitable respiratory protective device in case of insufficient ventilation.
· **Protection of hands:**
Solvent resistant gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
· **Material of gloves**
Nitrile rubber, NBR
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye protection:** Tightly sealed goggles.
· **Body protection:** Protective work clothing.

*

9 Physical and chemical properties:

· **General Information**	
Form:	Fluid
Color:	Yellow
Odor:	Product specific
· **Change in condition**	
Melting point/Melting range:	undetermined
Boiling point/Boiling range:	undetermined

(Contd. on page 4)

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 03/03/2004 Reviewed on 03/03/2004

Trade name: Solvex 1

(Contd. of page 3)

· **Flash point:**	73°C (163°F) (ASTM D 93c.c)
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.
· **Density at 20°C (68°F):**	0.920 - 0.930 g/cm3 (ISO 2811)
· **Solubility in / Miscibility with Water:**	Emulsifiable
· **pH-value (100 g/l) at 20°C (68°F):**	6.8 - 7.2

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **Dangerous reactions** Reacts with strong oxidizing agents.
· **Dangerous products of decomposition:** No dangerous decomposition products known

11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
68411-30-3 linear alkyl benzenesulfonic acid salt		
Oral	LD50	2550 mg/kg (rat)
68551-17-7 isoparaffins		
Oral	LD50	34600 mg/kg (rat)
Dermal	LD50	15400 mg/kg (rabbit)
34590-94-8 dipropylene glycol monomethyl ether		
Oral	LD50	5130 mg/kg (rat)
Dermal	LD50	> 19000 mg/kg (rabbit)

· **Primary irritant effect:**
· **on the skin:** Irritant to skin and mucous membranes.
· **on the eye:** Strong irritant with the danger of severe eye injury.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information:

· **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water course or sewage system.
At present there are no ecotoxicological assessments.

(Contd. on page 5)

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 03/03/2004 Reviewed on 03/03/2004

Trade name: Solvex 1

(Contd. of page 4)

13 Waste Disposal Method

· **Product and uncleaned packagings:**
· **Recommendation:**
Contaminated adsorbent, soil, water must be disposed of in a permitted hazardous waste management facility. Recovered products may be reused, reprocessed or incinerated or must be treated in a permitted hazardous waste management facility. It is your duty to dispose of the chemical materials and/or their containers in accordance with the Clean Air Act, The Clean Water Act, RCRA, as well as applicable Federal, State, and local Regulations regarding disposal.

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14 Transport information

· **DOT regulations:**
· **Hazard class:** -

· **Land transport ADR/RID (cross-border)**
· **ADR/RID class:** -

· **Maritime transport IMDG:**
· **IMDG Class:** -

· **Air transport ICAO-TI and IATA-DGR:**
· **ICAO/IATA Class:** -

15 Regulatory information (Not meant to be all-inclusive/selected regulations represented)

· **Product related hazard informations:**
The product has been marked in accordance with national laws.
Observe the general safety regulations when handling chemicals

· **Hazard symbols:**
Irritant

· **Risk phrases:**
38 Irritating to skin.
41 Risk of serious damage to eyes.

· **Safety phrases:**
2 Keep out of the reach of children.
20 When using do not eat or drink.
24/25 Avoid contact with skin and eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
37/39 Wear suitable gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately.
46 If swallowed, seek medical advice immediately and show this container or label.
· **National regulations**

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
· **Other regulations, limitations and prohibitive regulations**
The product has been designed for professional use only.
· **Please note:**
The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another. It is the buyers responsibility to ensure that their activities comply with Federal, State or provincial and local laws. The following specific information is made for the purpose of complying with numerous laws and regulations

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 03/03/2004 Reviewed on 03/03/2004

Trade name: Solvex 1

(Contd. of page 5)

· **U.S. Regulations**

· **EPA (Environmental Protection Agency)**
None of the ingredients is listed.

· **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.

· **NTP (National Toxicology Program)**
None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**
None of the ingredients is listed.

· **MAK (German Maximum Workplace Concentration)**
None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

· **SARA Section 355 (extremely hazardous substances)**
None of the ingredients is listed.

· **SARA Section 313 (specific toxic chemical listings)**
None of the ingredients is listed.

· **Toxic Substances Control Act (TSCA):**
All ingredients are listed.

· **California proposition 65:**

· **Prop 65 - Chemicals known to cause cancer**
None of the ingredients is listed.

· **Prop 65 - Chemicals known to cause reproductive toxicity**
None of the ingredients is listed.

· **State right-to-know**
The following product component(s)is/are cited on certain State lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

· **CAS-No.: Chemical name: LIST:**
34590-94-8 dipropylene glycol monomethyl ether NY/PA

· **OSHA hazard communication standard:**
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

· **Comprehensive Environmental Response Compensation and Liability Act (CERCLA, or Superfund):**
This product contains the following substance(s) listed as "Hazardous Substances" under CERCLA, which may require reporting of releases:

· **CAS-No.: Chemical name:** void

· **Canadian regulations**

· **WHMIS information:**
The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:
D2B - Eye and/or skin irritant
Refer elswhere in the MSDS for specific warnings and safe handling information. Refer to the empoyer's workplace education program.
B3 - Combustible liquid

· **CPR statement:**
This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 03/03/2004 Reviewed on 03/03/2004

Trade name: Solvex 1

(Contd. of page 6)

· **Canadian Ingredient disclosure list**

· **Limit 0,1%**	
None of the ingredients is listed.	

· **Limit 1%**	
34590-94-8	dipropylene glycol monomethyl ether
68411-30-3	linear alkyl benzenesulfonic acid salt

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Contact:** Dr. Ralf Döring
· *** Data compared to the previous version altered.**

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 11/17/2005 Reviewed on 11/17/2005

1 Identification of substance:

· **Product details:**

· **Trade name: Solvex 2**

· **Application of the substance / the preparation** Drycleaning / Laundry

· **Manufacturer/Supplier:**
SEITZ GmbH
Gutenbergstrasse 3
65830 Kriftel/ Germany
seitz@seitz24.com
www.seitz24.com

· **Information department:**
CHEM-TEL Inc.
1305 North Florida Ave
Tampa Florida 33602

· **Emergency information:** 1-800-255-3924

2 Composition/Data on components:

· **Chemical characterization**

· **Description:** Mixture of the substances listed below with non-hazardous ingredients.

· CAS-No.	Components:	
1336-21-6	ammonium hydroxide	< 1%

3 Hazards identification

· **Hazard description:** not applicable

· **Information pertaining to particular dangers for man and environment** not applicable

· **Classification system**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· **NFPA ratings (scale 0-4)**

Health = 0
Fire = 0
Reactivity = 0

· **HMIS ratings (scale 0-4)**

Health = 0
Fire = 0
Reactivity = 0

4 First aid measures

· **General information** Immediately remove any clothing soiled by the product.

· **After inhalation** Supply fresh air; consult doctor in case of complaints.

· **After skin contact**
Immediately rinse with water.
If skin irritation continues, consult a doctor.

· **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing**
Rinse out mouth and then drink plenty of water.

(Contd. on page 2)

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 11/17/2005 Reviewed on 11/17/2005

Trade name: Solvex 2

(Contd. of page 1)

Do not induce vomiting; immediately call for medical help.

5 Fire fighting measures

· **Suitable extinguishing agents**
CO_2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **Special hazards caused by the material, its products of combustion or resulting gases:**
Formation of toxic gases is possible during heating or in case of fire.
· **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Wear self-contained respiratory protective device.
· **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

· **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Avoid contact with eyes and skin.
· **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
· **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the collected material according to regulations.

7 Handling and storage

· **Handling**
· **Information for safe handling:**
Keep away from heat and direct sunlight.
Avoid contact with eyes and skin.
· **Information about protection against explosions and fires:** No special measures required.

· **Storage**
· **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
· **Information about storage in one common storage facility:** Store away from foodstuffs.
· **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Protect from frost.
Time of storage: max. 18 month

8 Exposure controls and personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment**
· **General protective and hygienic measures**
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Do not eat, drink, smoke or sniff while working.

(Contd. page 3)

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 11/17/2005 Reviewed on 11/17/2005

Trade name: Solvex 2

(Contd. of page 2)

Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
· **Breathing equipment:** Not required.
· **Protection of hands:**
Protective gloves recommended.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
· **Material of gloves**
Nitrile rubber, NBR
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye protection:** Safety glasses recommended
· **Body protection:** Protective work clothing recommened

9 Physical and chemical properties:

· **General Information**	
Form:	Fluid
Color:	Colorless
Odor:	Product specific
· **Change in condition**	
Melting point/Melting range:	undetermined
Boiling point/Boiling range:	undetermined
· **Flash point:**	Not applicable
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Density at 20°C (68°F):**	~ 1.01 g/cm3 (ISO 2811)
· **Solubility in / Miscibility with Water:**	Fully miscible
· **pH-value at 20°C (68°F):**	~ 11.2

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **Materials to be avoided:** Acids
· **Dangerous reactions** None if used as directed.
· **Dangerous products of decomposition:** None if used as directed.

11 Toxicological information

· **Acute toxicity:**
· **Primary irritant effect:**
· **on the skin:** Irritating effects possible

(Contd. on page 4)

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 11/17/2005 Reviewed on 11/17/2005

Trade name: Solvex 2

(Contd. of page 3)

· **on the eye:** Irritating effects possible
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**
The product is not subject to classification according to internally approved calculation methods for preparations.
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information:

· **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Waste Disposal Method

· **Product and uncleaned packagings:**
· **Recommendation:**
Contaminated adsorbent, soil, water must be disposed of in a permitted hazardous waste management facility. Recovered products may be reused, reprocessed or incinerated or must be treated in a permitted hazardous waste management facility. It is your duty to dispose of the chemical materials and/or their containers in accordance with the Clean Air Act, The Clean Water Act, RCRA, as well as applicable Federal, State, and local Regulations regarding disposal.

14 Transport information

· **DOT regulations:**
· **Hazard class:** -

· **Land transport ADR/RID (cross-border)**
· **ADR/RID class:** -

· **Maritime transport IMDG:**
· **IMDG Class:** -

· **Air transport ICAO-TI and IATA-DGR:**
· **ICAO/IATA Class:** -

15 Regulatory information (Not meant to be all-inclusive/selected regulations represented)

· **Product related hazard informations:**
The product has not been classified and marked in accordance respective national laws.
Observe the general safety regulations when handling chemicals

· **Hazard symbols:** not applicable

· **Safety phrases:**
2 Keep out of the reach of children.
20 When using do not eat or drink.
24/25 Avoid contact with skin and eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

(Contd. on page 5)

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 11/17/2005 Reviewed on 11/17/2005

Trade name: Solvex 2

(Contd. of page 4)

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
46 If swallowed, seek medical advice immediately and show this container or label.

· **National regulations**

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
· **Other regulations, limitations and prohibitive regulations**
The product has been designed for professional use only.
· **Please note:**
The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another. It is the buyers responsibility to ensure that their activities comply with Federal, State or provincial and local laws. The following specific information is made for the purpose of complying with numerous laws and regulations.
· **U.S. Regulations**

· **EPA (Environmental Protection Agency)**
None of the ingredients is listed.

· **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.

· **NTP (National Toxicology Program)**
None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**
None of the ingredients is listed.

· **MAK (German Maximum Workplace Concentration)**
None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

· **SARA Section 355 (extremely hazardous substances)**
None of the ingredients is listed.

· **SARA Section 313 (specific toxic chemical listings)**
None of the ingredients is listed.

· **Toxic Substances Control Act (TSCA):**
All ingredients are listed.

· **California proposition 65:**

· **Prop 65 - Chemicals known to cause cancer**
None of the ingredients is listed.

· **Prop 65 - Developmental toxicity**
None of the ingredients is listed.

· **Prop 65 - Reproductive toxicity for females**
None of the ingredients is listed.

· **Prop 65 - Reproductive toxicity for males**
None of the ingredients is listed.

· **Canadian regulations**
· **WHMIS information:**
The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:
void

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 11/17/2005 Reviewed on 11/17/2005

Trade name: Solvex 2

(Contd. of page 5)

· **Canadian Ingredient Disclosure List**

· **Limit 0,1%**

None of the ingredients is listed.

· **Limit 1%**

None of the ingredients is listed.

· **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Contact:** Dr. Ralf Döring

USA

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 03/03/2004 Reviewed on 03/03/2004

*
1 Identification of substance:

· **Product details:**

· **Trade name: Solvex 3**

· **Application of the substance / the preparation** Drycleaning / Laundry

· **Manufacturer/Supplier:**
SEITZ GmbH
Gutenbergstrasse 3
65830 Kriftel/ Germany
seitz@seitz24.com
www.seitz24.com

· **Information department:**
CHEM-TEL Inc.
1305 North Florida Ave
Tampa Florida 33602

· **Emergency information:** 1-800-255-3924

*
2 Composition/Data on components:

· **Chemical characterization**

· **Description:** Mixture of the substances listed below with non-hazardous ingredients.

· CAS-No.	Components:	
64742-47-8	isoparaffins	20 - 50%
577-11-7	diisooctyl sodium sulfosuccinate	10 - 20%
69011-36-5	isotridecanol, oxethylated	< 10%
34590-94-8	dipropylene glycol monomethyl ether	< 5%

3 Hazards identification

· **Hazard description:**
Irritant liquid

Irritant

· **Information pertaining to particular dangers for man and environment**
R 41 Risk of serious damage to eyes.

· **Classification system**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· **NFPA ratings (scale 0-4)**

Health = 2
Fire = 0
Reactivity = 0

4 First aid measures

· **General information**
Immediately remove any clothing soiled by the product.
Remove casualties from exposure.
Keep unprotected persons away.

· **After inhalation** Supply fresh air; consult doctor in case of complaints.

(Contd. on page 2)

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 03/03/2004 Reviewed on 03/03/2004

Trade name: Solvex 3

(Contd. of page 1)

· **After skin contact**
Immediately rinse with water.
If skin irritation continues, consult a doctor.
· **After eye contact**
Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; immediately call for medical help.

5 Fire fighting measures

· **Suitable extinguishing agents**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **Special hazards caused by the material, its products of combustion or resulting gases:**
In case of fire, the following can be released:
Carbon monoxide and carbon dioxide (CO,CO2)
Sulphur oxides (SOX)
In certain fire conditions, traces of other toxic gases cannot be excluded.
· **Protective equipment:**
Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
· **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

· **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Avoid contact with eyes and skin.
Ensure adequate ventilation
· **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
· **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the collected material according to regulations.

7 Handling and storage

· **Handling**
· **Information for safe handling:**
Keep away from heat and direct sunlight.
Avoid contact with eyes and skin.
· **Information about protection against explosions and fires:** No special measures required.

· **Storage**
· **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
· **Information about storage in one common storage facility:** Store away from foodstuffs.
· **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Protect from frost.
Time of storage: max. 18 month

(Contd. on page 3)

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 03/03/2004 Reviewed on 03/03/2004

Trade name: Solvex 3

(Contd. of page 2)

8 Exposure controls and personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Components with limit values that require monitoring at the workplace:**	
34590-94-8 dipropylene glycol monomethyl ether	
PEL	600 mg/m³, 100 ppm Skin
REL	Short-term value: 900 mg/m³, 150 ppm Long-term value: 600 mg/m³, 100 ppm
TLV	Short-term value: 909 mg/m³, 150 ppm Long-term value: 606 mg/m³, 100 ppm Skin

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment**
· **General protective and hygienic measures**
The usual precautionary measures for handling chemicals should be followed.
Immediately remove all soiled and contaminated clothing
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Do not inhale gases / vapors / aerosols.
Do not eat, drink, smoke or sniff while working.
· **Breathing equipment:**
Not necessary if room is well-ventilated.
Use suitable respiratory protective device in case of insufficient ventilation.
· **Protection of hands:**
Protective gloves.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
· **Material of gloves**
Nitrile rubber, NBR
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye protection:** Tightly sealed goggles.
· **Body protection:** Protective work clothing.

9 Physical and chemical properties:

· **General Information**	
Form:	Fluid
Color:	Colorless
Odor:	Product specific
· **Change in condition**	
Melting point/Melting range:	undetermined
Boiling point/Boiling range:	undetermined
· **Flash point:**	Not applicable
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product does not present an explosion hazard.

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 03/03/2004 Reviewed on 03/03/2004

Trade name: Solvex 3

(Contd. of page 3)

· **Density at 20°C (68°F):**	0.935 - 0.945 g/cm³ (ISO 2811)
· **Solubility in / Miscibility with Water:**	Fully miscible
· **pH-value (100 g/l) at 20°C (68°F):**	3.0 - 3.5

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **Materials to be avoided:** Strong oxidizing agents
· **Dangerous reactions** No dangerous reactions known.
· **Dangerous products of decomposition:** No dangerous decomposition products known

11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
577-11-7 diisooctyl sodium sulfosuccinate		
Oral	LD50	> 2000 mg/kg (rat)
34590-94-8 dipropylene glycol monomethyl ether		
Oral	LD50	5130 mg/kg (rat)
Dermal	LD50	> 19000 mg/kg (rabbit)
69011-36-5 isotridecanol, oxethylated		
Oral	LD50	> 2000 mg/kg (rat)

· **Primary irritant effect:**
· **on the skin:** Irritating effects possible
· **on the eye:** Strong irritant with the danger of severe eye injury.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information:

· **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water course or sewage system.
At present there are no ecotoxicological assessments.

(Contd. on page 5)

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 03/03/2004 Reviewed on 03/03/2004

Trade name: Solvex 3

(Contd. of page 4)

13 Waste Disposal Method

· **Product and uncleaned packagings:**
· **Recommendation:**
Contaminated adsorbent, soil, water must be disposed of in a permitted hazardous waste management facility. Recovered products may be reused, reprocessed or incinerated or must be treated in a permitted hazardous waste management facility. It is your duty to dispose of the chemical materials and/or their containers in accordance with the Clean Air Act, The Clean Water Act, RCRA, as well as applicable Federal, State, and local Regulations regarding disposal.

*

14 Transport information

· **DOT regulations:**
· **Hazard class:** -

· **Land transport ADR/RID (cross-border)**
· **ADR/RID class:** -

· **Maritime transport IMDG:**
· **IMDG Class:** -

· **Air transport ICAO-TI and IATA-DGR:**
· **ICAO/IATA Class:** -

*

15 Regulatory information (Not meant to be all-inclusive/selected regulations represented)

· **Product related hazard informations:**
The product has been marked in accordance with national laws.
Observe the general safety regulations when handling chemicals

· **Hazard symbols:**
Irritant

· **Risk phrases:**
41 Risk of serious damage to eyes.

· **Safety phrases:**
2 Keep out of the reach of children.
20 When using do not eat or drink.
24/25 Avoid contact with skin and eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
37/39 Wear suitable gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately.
46 If swallowed, seek medical advice immediately and show this container or label.

· **National regulations**

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
· **Other regulations, limitations and prohibitive regulations**
The product has been designed for professional use only.
· **Please note:**
The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another. It is the buyers responsibility to ensure that their activities comply with Federal, State or provincial and local laws. The following specific information is made for the purpose of complying with numerous laws and regulations.

(Contd. on page 6)

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 03/03/2004 Reviewed on 03/03/2004

Trade name: Solvex 3

(Contd. of page 5)

· **U.S. Regulations**

· **EPA (Environmental Protection Agency)**
None of the ingredients is listed.

· **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.

· **NTP (National Toxicology Program)**
None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**
None of the ingredients is listed.

· **MAK (German Maximum Workplace Concentration)**
None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

· **SARA Section 355 (extremely hazardous substances)**
None of the ingredients is listed.

· **SARA Section 313 (specific toxic chemical listings)**
None of the ingredients is listed.

· **Toxic Substances Control Act (TSCA):**
All ingredients are listed.

· **California proposition 65:**

· **Prop 65 - Chemicals known to cause cancer**
None of the ingredients is listed.

· **Prop 65 - Chemicals known to cause reproductive toxicity**
None of the ingredients is listed.

· **State right-to-know**
The following product component(s)is/are cited on certain State lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.
· **CAS-No.: Chemical name: LIST:**
34590-94-8 dipropylene glycol monomethyl ether NY/PA
· **OSHA hazard communication standard:**
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
· **Comprehensive Environmental Response Compensation and Liability Act (CERCLA, or Superfund):**
This product contains the following substance(s) listed as "Hazardous Substances" under CERCLA, which may require reporting of releases:
· **CAS-No.: Chemical name:** void
· **Canadian regulations**
· **WHMIS information:**
The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:
D2B - Eye and/or skin irritant
Refer elswhere in the MSDS for specific warnings and safe handling information. Refer to the empoyer's workplace education program.
· **CPR statement:**
This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.
· **Hazardous products act information:**

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 03/03/2004 Reviewed on 03/03/2004

Trade name: Solvex 3

(Contd. of page 6)

· **Canadian Ingredient disclosure list**

· **Limit 0,1%**	
None of the ingredients is listed.	

· **Limit 1%**	
577-11-7	diisooctyl sodium sulfosuccinate
34590-94-8	dipropylene glycol monomethyl ether

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Contact:** Dr. Ralf Döring
· *** Data compared to the previous version altered.**

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 05/06/2004 Reviewed on 05/06/2004

1 Identification of substance:

· **Product details:**

· **Trade name: Polyspot KWV**

· **Application of the substance / the preparation** Drycleaning / Laundry

· **Manufacturer/Supplier:**
SEITZ GmbH
Gutenbergstrasse 3
65830 Kriftel/ Germany
seitz@seitz24.com
www.seitz24.com

· **Information department:**
CHEM-TEL Inc.
1305 North Florida Ave
Tampa Florida 33602

· **Emergency information:** 1-800-255-3924

2 Composition/Data on components:

· **Chemical characterization**

· **Description:** Mixture of the substances listed below with non-hazardous ingredients.

· CAS-No.	Components:	
69011-36-5	isotridecanol, oxethylated	20 - 50%
68551-17-7	isoparaffins	10 - 20%
577-11-7	diisooctyl sodium sulfosuccinate	10 - 20%
34590-94-8	dipropylene glycol monomethyl ether	10 - 20%

3 Hazards identification

· **Hazard description:**
Irritant liquid

Irritant

· **Information pertaining to particular dangers for man and environment**
R 38 Irritating to skin.
R 41 Risk of serious damage to eyes.

· **Classification system**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· **NFPA ratings (scale 0-4)**

Health = 2
Fire = 0
Reactivity = 0

4 First aid measures

· **General information**
Immediately remove any clothing soiled by the product.
Remove casualties from exposure.
Keep unprotected persons away.

· **After inhalation** Supply fresh air; consult doctor in case of complaints.

(Contd. on page 2)

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 05/06/2004 Reviewed on 05/06/2004

Trade name: Polyspot KWV

(Contd. of page 1)

· **After skin contact**
Immediately rinse with water.
If skin irritation continues, consult a doctor.
· **After eye contact**
Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; immediately call for medical help.

5 Fire fighting measures

· **Suitable extinguishing agents**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **Special hazards caused by the material, its products of combustion or resulting gases:**
In case of fire, the following can be released:
Carbon monoxide and carbon dioxide (CO,CO2)
Sulphur oxides (SOX)
In certain fire conditions, traces of other toxic gases cannot be excluded.
· **Protective equipment:**
Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
· **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

· **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Avoid contact with eyes and skin.
· **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
· **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the collected material according to regulations.

7 Handling and storage

· **Handling**
· **Information for safe handling:**
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Avoid contact with eyes and skin.
· **Information about protection against explosions and fires:** No special measures required.

· **Storage**
· **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
· **Information about storage in one common storage facility:** Store away from foodstuffs.
· **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Protect from frost.
Time of storage: max. 18 month

(Contd. on page 3)

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 05/06/2004 Reviewed on 05/06/2004

Trade name: Polyspot KWV

(Contd. of page 2)

8 Exposure controls and personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Components with limit values that require monitoring at the workplace:**	
34590-94-8 dipropylene glycol monomethyl ether	
PEL	600 mg/m³, 100 ppm Skin
REL	Short-term value: 900 mg/m³, 150 ppm Long-term value: 600 mg/m³, 100 ppm
TLV	Short-term value: 909 mg/m³, 150 ppm Long-term value: 606 mg/m³, 100 ppm Skin

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment**
· **General protective and hygienic measures**
The usual precautionary measures for handling chemicals should be followed.
Immediately remove all soiled and contaminated clothing
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Do not eat, drink, smoke or sniff while working.
Avoid contact with the eyes and skin.
· **Breathing equipment:** Not necessary if room is well-ventilated.
· **Protection of hands:**
Protective gloves.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
· **Material of gloves**
Nitrile rubber, NBR
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye protection:** Tightly sealed goggles.
· **Body protection:** Protective work clothing.

9 Physical and chemical properties:

· **General Information**	
Form:	Fluid
Color:	Light yellow
Odor:	Product specific
· **Change in condition**	
Melting point/Melting range:	undetermined
Boiling point/Boiling range:	undetermined
· **Flash point:**	Not applicable
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Density at 20°C (68°F):**	0.935- 0.945 g/cm3 (ISO 2811)

(Contd. on page 4)

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 05/06/2004 Reviewed on 05/06/2004

Trade name: Polyspot KWV

(Contd. of page 3)

· **Solubility in / Miscibility with Water:**	Fully miscible
· **pH-value (100 g/l) at 20°C (68°F):**	7.5 - 8.0

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **Dangerous reactions** None if used as directed.
· **Dangerous products of decomposition:** No dangerous decomposition products known

11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
69011-36-5 isotridecanol, oxethylated		
Oral	LD50	> 2000 mg/kg (rat)
68551-17-7 isoparaffins		
Oral	LD50	34600 mg/kg (rat)
Dermal	LD50	15400 mg/kg (rabbit)
577-11-7 diisooctyl sodium sulfosuccinate		
Oral	LD50	> 2000 mg/kg (rat)
34590-94-8 dipropylene glycol monomethyl ether		
Oral	LD50	5130 mg/kg (rat)
Dermal	LD50	> 19000 mg/kg (rabbit)

· **Primary irritant effect:**
· **on the skin:** Irritant to skin and mucous membranes.
· **on the eye:** Strong irritant with the danger of severe eye injury.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information:

· **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water course or sewage system.
At present there are no ecotoxicological assessments.

(Contd. on page 5)

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 05/06/2004 Reviewed on 05/06/2004

Trade name: Polyspot KWV

(Contd. of page 4)

13 Waste Disposal Method

· **Product and uncleaned packagings:**
· **Recommendation:**
Contaminated adsorbent, soil, water must be disposed of in a permitted hazardous waste management facility. Recovered products may be reused, reprocessed or incinerated or must be treated in a permitted hazardous waste management facility. It is your duty to dispose of the chemical materials and/or their containers in accordance with the Clean Air Act, The Clean Water Act, RCRA, as well as applicable Federal, State, and local Regulations regarding disposal.

14 Transport information

· **DOT regulations:**
· **Hazard class:** -

· **Land transport ADR/RID (cross-border)**
· **ADR/RID class:** -

· **Maritime transport IMDG:**
· **IMDG Class:** -

· **Air transport ICAO-TI and IATA-DGR:**
· **ICAO/IATA Class:** -

15 Regulatory information (Not meant to be all-inclusive/selected regulations represented)

· **Product related hazard informations:**
The product has been marked in accordance with national laws.
Observe the general safety regulations when handling chemicals

· **Hazard symbols:**
Irritant

· **Risk phrases:**
38 Irritating to skin.
41 Risk of serious damage to eyes.

· **Safety phrases:**
2 Keep out of the reach of children.
20 When using do not eat or drink.
24/25 Avoid contact with skin and eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
37/39 Wear suitable gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
46 If swallowed, seek medical advice immediately and show this container or label.
· **National regulations**

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
· **Other regulations, limitations and prohibitive regulations**
The product has been designed for professional use only.
· **Please note:**
The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another. It is the buyers responsibility to ensure that their activities comply with Federal, State or provincial and local laws. The following

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 05/06/2004 Reviewed on 05/06/2004

Trade name: Polyspot KWV

(Contd. of page 5)

· **U.S. Regulations**

· **EPA (Environmental Protection Agency)**
None of the ingredients is listed.

· **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.

· **NTP (National Toxicology Program)**
None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**
None of the ingredients is listed.

· **MAK (German Maximum Workplace Concentration)**
None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

· **SARA Section 355 (extremely hazardous substances)**
None of the ingredients is listed.

· **SARA Section 313 (specific toxic chemical listings)**
None of the ingredients is listed.

· **Toxic Substances Control Act (TSCA):**
All ingredients are listed.

· **California proposition 65:**

· **Prop 65 - Chemicals known to cause cancer**
None of the ingredients is listed.

· **Prop 65 - Chemicals known to cause reproductive toxicity**
None of the ingredients is listed.

· **State right-to-know**
The following product component(s)is/are cited on certain State lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.
· **CAS-No.: Chemical name: LIST:**
34590-94-8 dipropylene glycol monomethyl ether NY/PA
· **OSHA hazard communication standard:**
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
· **Comprehensive Environmental Response Compensation and Liability Act (CERCLA, or Superfund):**
This product contains the following substance(s) listed as "Hazardous Substances" under CERCLA, which may require reporting of releases:
· **CAS-No.: Chemical name:** void
· **Canadian regulations**
· **WHMIS information:**
The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:
D2B - Eye and/or skin irritant
Refer elswhere in the MSDS for specific warnings and safe handling information. Refer to the empoyer's workplace education program.
· **CPR statement:**
This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.
· **Hazardous products act information:**

Material Safety Data Sheet
acc. to ISO/DIS 11014

The fresher company.

Printing date 05/06/2004 Reviewed on 05/06/2004

Trade name: Polyspot KWV

(Contd. of page 6)

· **Canadian Ingredient disclosure list**

· **Limit 0,1%**	
None of the ingredients is listed.	
· **Limit 1%**	
577-11-7	diisooctyl sodium sulfosuccinate
34590-94-8	dipropylene glycol monomethyl ether

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Contact:** Dr. Ralf Döring

MATERIAL SAFETY DATA SHEET

IDENTITY	RustGo ®

SECTION I

MANUFACTURER:	EMERGENCY TELEPHONE NUMBER	800-424-9300 or 703-527-3887
A.L. WILSON CHEMICAL CO. 1050 HARRISON AVENUE P.O. BOX 207 KEARNY, NJ 07032	TELEPHONE NUMBER FOR INFORMATION:	201-997-3300
	DATE PREPARED:	April 9, 1999

SECTION II - IMPORTANT INGREDIENTS / IDENTITY INFORMATION

IMPORTANT COMPONENTS	CHEMICAL IDENTITY	CAS #	%	TLV
HYDROFLUORIC ACID*	HF	7664-39-3	12% approx.	3.0 ppm ACGIH
AMMONIUM BIFLUORIDE	$NH_4 HF_2$	1341-49-7	16% approx.	2.4Mg/M3
WATER	H_2O	7732-18-5		

* Subject to SARA, Title III, Section 313 and 40 CFR 372.

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT	ND	**SPECIFIC GRAVITY (H_2O=1)**	1.1 approx
VAPOR PRESSURE (mm Hg)	ND	**MELTING POINT**	NA
VAPOR DENSITY (air =1)	ND	**EVAPORATION RATE (butyl acetate =1)**	ND
SOLUBILITY IN WATER	100%		
APPEARANCE AND ODER	colorless liquid, sharp odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT NA (method used)	**FLAMMABLE LIMITS** NA
EXTINGUISHING MEDIA water or carbon dioxide "CO_2" for fires in area	
SPECIAL FIRE FIGHTING PROCEDURES NA	
UNUSUAL FIRE AND EXPLOSION HAZARDS NA	

SECTION V - REACTIVITY DATA

STABILITY stable	**CONDITIONS TO AVOID** Avoid contact with strong alkalis, metals or high temperature.
INCOMPATIBILITY (MATERIALS TO AVOID) strong alkalis, metals or other material	
HAZARDOUS DECOMPOSITION PRODUCTS With metals can release potentially dangerous hydrogen gas. At decomposition emits highly corrosive fluoride fumes.	
HAZARDOUS POLYMERIZATION will not occur	

See Page 2 for more information

SECTION VI - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE

EYES: May cause permanent damage

SKIN: May cause sever burns which may not be immediately painful or visible, and may penetrate skin and damage underlying tissue.

INGESTION: May cause throat burns and severe swelling restricting breathing.

INHALATION: Concentration of "F" vapors of $2Mg/M^3$ or more may cause damage to lungs, respiratory system and pulmonary edema.

FIRST AID

In each case of overexposure, after first aid treatment, see a physician as soon as possible thereafter.

EYES: Flush immediately with large quantities of clean cool water for at least 15 minutes. (Hold eyelids apart if necessary.)

SKIN: Flush immediately with large quantities of water. (Shower if available.) Remove contaminated clothing.

INGESTION: See a physician as soon as possible.

INHALATION: Immediately remove victim from source of exposure.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Cover area with sodium bicarbonate to neutralize acid. Scoop up and dispose of as below.

WASTE DISPOSAL METHOD:

Dispose of in accordance with federal, state and local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not get in eyes on skin or on clothing. Do not breathe vapor. Wash thoroughly after handling.

OTHER PRECAUTIONS

Do not use if pregnant.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION Above 20 ppm of "F" wear OSHA permissible gas mask or cartridge.	**VENTILATION** local exhaust
PROTECTIVE GLOVES **PVC or neoprene**	**EYE PROTECTION** chemical splash goggles.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT rubber apron	
WORK/HYGIENIC PRACTICES Wash thoroughly after handling. Do not smoke, eat or drink in work area.	

NA = Not Applicable
ND = Not Determined

See Page 1 for more information

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: **Conrad Geoscience**

Client Job Site:	Apple Valley Shopping Center Lagrange, NY	**Lab Project Number:**	07-0320
		Lab Sample Number:	1638
Client Job Number:	AL030070		
Field Location:	SVFT-4	**Date Sampled:**	1/16/2007
Field ID Number:	N/A	**Date Received:**	1/19/2007
Sample Type:	Air	**Date Analyzed:**	1/23/2007

Halocarbons	PPBv	ug / m3
cis-1,2-Dichloroethene	ND< 0.0998	ND< 0.392
Tetrachloroethene	2.45	16.4

Halocarbons	PPBv	ug / m3
Trichloroethene	ND< 0.0469	ND< 0.249
Vinyl Chloride	ND< 0.0998	ND< 0.253

ELAP Number 10958 Method: EPA TO-15 Data File: A2133.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Conrad Geoscience

Client Job Site:	Apple Valley Shopping Center Lagrange, NY	**Lab Project Number:**	07-0320
		Lab Sample Number:	1639
Client Job Number:	AL030070		
Field Location:	SVFT-3	**Date Sampled:**	1/16/2007
Field ID Number:	N/A	**Date Received:**	1/19/2007
Sample Type:	Air	**Date Analyzed:**	1/23/2007

Halocarbons	PPBv	ug / m3
cis-1,2-Dichloroethene	ND< 0.133	ND< 0.522
Tetrachloroethene	3.64	24.4

Halocarbons	PPBv	ug / m3
Trichloroethene	0.251	1.33
Vinyl Chloride	ND< 0.133	ND< 0.337

ELAP Number 10958 Method: EPA TO-15 Data File: A2135.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger, Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Conrad Geoscience

Client Job Site:	Apple Valley Shopping Center Lagrange, NY	**Lab Project Number:**	07-0320
		Lab Sample Number:	1641
Client Job Number:	AL030070		
Field Location:	SVFT-5	**Date Sampled:**	1/16/2007
Field ID Number:	N/A	**Date Received:**	1/19/2007
Sample Type:	Air	**Date Analyzed:**	1/23/2007

Halocarbons	PPBv	ug / m3
cis-1,2-Dichloroethene	ND< 0.167	ND< 0.656
Tetrachloroethene	6.58	44.1

Halocarbons	PPBv	ug / m3
Trichloroethene	0.803	4.27
Vinyl Chloride	ND< 0.167	ND< 0.423

ELAP Number 10958 Method: EPA TO-15 Data File: A2137.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

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ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Conrad Geoscience

Client Job Site:	Apple Valley Shopping Center Lagrange, NY	**Lab Project Number:**	07-0320
		Lab Sample Number:	1642
Client Job Number:	AL030070		
Field Location:	IAFT-1	**Date Sampled:**	1/16/2007
Field ID Number:	N/A	**Date Received:**	1/19/2007
Sample Type:	Air	**Date Analyzed:**	1/23/2007

Halocarbons	PPBv	ug / m3
cis-1,2-Dichloroethene	ND< 0.0995	ND< 0.391
Tetrachloroethene	0.253	1.70

Halocarbons	PPBv	ug / m3
Trichloroethene	ND< 0.0468	ND< 0.249
Vinyl Chloride	ND< 0.0995	ND< 0.252

ELAP Number 10958 Method: EPA TO-15 Data File: A2139.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Air

Client: **Conrad Geoscience**

Client Job Site:	Apple Valley Shopping Center Lagrange, NY	**Lab Project Number:**	07-0320
		Lab Sample Number:	1643
Client Job Number:	AL030070		
Field Location:	IAFT-2	**Date Sampled:**	1/16/2007
Field ID Number:	N/A	**Date Received:**	1/19/2007
Sample Type:	Air	**Date Analyzed:**	1/23/2007

Halocarbons	PPBv	ug / m3
cis-1,2-Dichloroethene	ND< 0.100	ND< 0.393
Tetrachloroethene	0.311	2.09

Halocarbons	PPBv	ug / m3
Trichloroethene	ND< 0.0470	ND< 0.250
Vinyl Chloride	ND< 0.100	ND< 0.254

ELAP Number 10958 Method: EPA TO-15 Data File: A2141.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Air

Client: Conrad Geoscience

Client Job Site:	Apple Valley Shopping Center Lagrange, NY	**Lab Project Number:**	07-0320
		Lab Sample Number:	1644
Client Job Number:	AL030070		
Field Location:	SVAP-1	**Date Sampled:**	1/16/2007
Field ID Number:	N/A	**Date Received:**	1/19/2007
Sample Type:	Air	**Date Analyzed:**	1/23/2007

Halocarbons	PPBv	ug / m3
cis-1,2-Dichloroethene	ND< 0.123	ND< 0.483
Tetrachloroethene	0.427	2.86

Halocarbons	PPBv	ug / m3
Trichloroethene	0.0595	0.316
Vinyl Chloride	ND< 0.123	ND< 0.312

ELAP Number 10958 Method: EPA TO-15 Data File: A2143.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Air

Client: Conrad Geoscience

Client Job Site:	Apple Valley Shopping Center Lagrange, NY	**Lab Project Number:**	07-0320
		Lab Sample Number:	1645
Client Job Number:	AL030070		
Field Location:	IAAP-1	**Date Sampled:**	1/16/2007
Field ID Number:	N/A	**Date Received:**	1/19/2007
Sample Type:	Air	**Date Analyzed:**	1/23/2007

Halocarbons	PPBv	ug / m3
cis-1,2-Dichloroethene	ND< 0.118	ND< 0.463
Tetrachloroethene	0.271	1.82

Halocarbons	PPBv	ug / m3
Trichloroethene	ND< 0.0553	ND< 0.294
Vinyl Chloride	ND< 0.118	ND< 0.299

ELAP Number 10958 Method: EPA TO-15 Data File: A2145.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Air

Client: Conrad Geoscience

Client Job Site:	Apple Valley Shopping Center Lagrange, NY	**Lab Project Number:**	07-0320
		Lab Sample Number:	1646
Client Job Number:	AL030070		
Field Location:	SVSE-1	**Date Sampled:**	1/16/2007
Field ID Number:	N/A	**Date Received:**	1/19/2007
Sample Type:	Air	**Date Analyzed:**	1/23/2007

Halocarbons	PPBv	ug / m3
cis-1,2-Dichloroethene	ND< 0.100	ND< 0.393
Tetrachloroethene	1.43	9.59

Halocarbons	PPBv	ug / m3
Trichloroethene	0.0832	0.442
Vinyl Chloride	ND< 0.100	ND< 0.254

ELAP Number 10958 Method: EPA TO-15 Data File: A2129.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Air

Client: Conrad Geoscience

Client Job Site:	Apple Valley Shopping Center Lagrange, NY	**Lab Project Number:**	07-0320
		Lab Sample Number:	1647
Client Job Number:	AL030070		
Field Location:	IASE-1	**Date Sampled:**	1/16/2007
Field ID Number:	N/A	**Date Received:**	1/19/2007
Sample Type:	Air	**Date Analyzed:**	1/23/2007

Halocarbons	PPBv	ug / m3
cis-1,2-Dichloroethene	ND< 1.33	ND< 5.22
Tetrachloroethene	ND< 1.33	ND< 8.92

Halocarbons	PPBv	ug / m3
Trichloroethene	ND< 0.627	ND< 3.33
Vinyl Chloride	ND< 1.33	ND< 3.37

ELAP Number 10958 Method: EPA TO-15 Data File: A2149.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.
Detection Limit elevated due to limited sample volume

Signature: _____
Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Air

Client: Conrad Geoscience

Client Job Site:	Apple Valley Shopping Center Lagrange, NY	**Lab Project Number:**	07-0320
		Lab Sample Number:	1648
Client Job Number:	AL030070		
Field Location:	SVLP-1	**Date Sampled:**	1/16/2007
Field ID Number:	N/A	**Date Received:**	1/19/2007
Sample Type:	Air	**Date Analyzed:**	1/24/2007

Halocarbons	PPBv	ug / m3
cis-1,2-Dichloroethene	ND< 1.90	ND< 7.46
Tetrachloroethene	31.8	213

Halocarbons	PPBv	ug / m3
Trichloroethene	1.40	7.44
Vinyl Chloride	ND< 1.90	ND< 4.82

ELAP Number 10958 Method: EPA TO-15 Data File: A2150.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Air

Client: Conrad Geoscience

Client Job Site:	Apple Valley Shopping Center Lagrange, NY	**Lab Project Number:**	07-0320
		Lab Sample Number:	1649
Client Job Number:	AL030070		
Field Location:	IALP-1	**Date Sampled:**	1/16/2007
Field ID Number:	N/A	**Date Received:**	1/19/2007
Sample Type:	Air	**Date Analyzed:**	1/24/2007

Halocarbons	PPBv	ug / m3
cis-1,2-Dichloroethene	0.296	1.16
Tetrachloroethene	3.41	22.9

Halocarbons	PPBv	ug / m3
Trichloroethene	0.0860	0.457
Vinyl Chloride	ND< 0.130	ND< 0.330

ELAP Number 10958 Method: EPA TO-15 Data File: A2153.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Air

Client: Conrad Geoscience

Client Job Site:	Apple Valley Shopping Center Lagrange, NY	**Lab Project Number:**	07-0320
		Lab Sample Number:	1650
Client Job Number:	AL030070		
Field Location:	SVSF-1	**Date Sampled:**	1/16/2007
Field ID Number:	N/A	**Date Received:**	1/19/2007
Sample Type:	Air	**Date Analyzed:**	1/24/2007

Halocarbons	PPBv	ug / m3
cis-1,2-Dichloroethene	ND< 0.109	ND< 0.428
Tetrachloroethene	ND< 0.109	ND< 0.731

Halocarbons	PPBv	ug / m3
Trichloroethene	0.0743	0.395
Vinyl Chloride	ND< 0.109	ND< 0.276

ELAP Number 10958 Method: EPA TO-15 Data File: A2175.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Air

Client: Conrad Geoscience

Client Job Site:	Apple Valley Shopping Center Lagrange, NY	**Lab Project Number:**	07-0320
		Lab Sample Number:	1651
Client Job Number:	AL030070		
Field Location:	IASF-1	**Date Sampled:**	1/16/2007
Field ID Number:	N/A	**Date Received:**	1/19/2007
Sample Type:	Air	**Date Analyzed:**	1/24/2007

Halocarbons	PPBv	ug / m3
cis-1,2-Dichloroethene	ND< 0.120	ND< 0.471
Tetrachloroethene	ND< 0.120	ND< 0.805

Halocarbons	PPBv	ug / m3
Trichloroethene	ND< 0.0566	ND< 0.301
Vinyl Chloride	ND< 0.120	ND< 0.304

ELAP Number 10958 Method: EPA TO-15 Data File: A2177.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
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Volatile Analysis Report for Air

Client: Conrad Geoscience

Client Job Site:	Apple Valley Shopping Center Lagrange, NY	**Lab Project Number:**	07-0320
		Lab Sample Number:	1652
Client Job Number:	AL030070		
Field Location:	SVDS-1	**Date Sampled:**	1/16/2007
Field ID Number:	N/A	**Date Received:**	1/19/2007
Sample Type:	Air	**Date Analyzed:**	1/24/2007

Halocarbons	PPBv	ug / m3
cis-1,2-Dichloroethene	ND< 0.114	ND< 0.448
Tetrachloroethene	ND< 0.114	ND< 0.765

Halocarbons	PPBv	ug / m3
Trichloroethene	ND< 0.0537	ND< 0.286
Vinyl Chloride	ND< 0.114	ND< 0.289

ELAP Number 10958 Method: EPA TO-15 Data File: A2179.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Air

Client: Conrad Geoscience

Client Job Site:	Apple Valley Shopping Center Lagrange, NY	**Lab Project Number:**	07-0320
		Lab Sample Number:	1653
Client Job Number:	AL030070		
Field Location:	IADS-1	**Date Sampled:**	1/16/2007
Field ID Number:	N/A	**Date Received:**	1/19/2007
Sample Type:	Air	**Date Analyzed:**	1/24/2007

Halocarbons	PPBv	ug / m3
cis-1,2-Dichloroethene	ND< 0.105	ND< 0.412
Tetrachloroethene	ND< 0.105	ND< 0.704

Halocarbons	PPBv	ug / m3
Trichloroethene	ND< 0.0493	ND< 0.262
Vinyl Chloride	ND< 0.105	ND< 0.266

ELAP Number 10958 Method: EPA TO-15 Data File: A2181.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
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Volatile Analysis Report for Air

Client: Conrad Geoscience

Client Job Site:	Apple Valley Shopping Center Lagrange, NY	**Lab Project Number:**	07-0320
		Lab Sample Number:	1654
Client Job Number:	AL030070		
Field Location:	OA	**Date Sampled:**	1/16/2007
Field ID Number:	N/A	**Date Received:**	1/19/2007
Sample Type:	Air	**Date Analyzed:**	1/25/2007

Halocarbons	PPBv	ug / m3
cis-1,2-Dichloroethene	ND< 0.0998	ND< 0.392
Tetrachloroethene	ND< 0.0998	ND< 0.669

Halocarbons	PPBv	ug / m3
Trichloroethene	ND< 0.0469	ND< 0.249
Vinyl Chloride	ND< 0.0998	ND< 0.253

ELAP Number 10958 Method: EPA TO-15 Data File: A2183.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Conrad Geoscience

Client Job Site:	Apple Valley Shopping Center Lagrange, NY	**Lab Project Number:**	07-0320
		Lab Sample Number:	Method Blank 20cc
Client Job Number:	AL030070		
Field Location:	N/A	**Date Sampled:**	N/A
Field ID Number:	N/A	**Date Received:**	N/A
Sample Type:	Air	**Date Analyzed:**	1/23/2007

Halocarbons	PPBv	ug / m3
cis-1,2-Dichloroethene	ND< 1.90	ND< 7.46
Tetrachloroethene	ND< 1.90	ND< 12.7

Halocarbons	PPBv	ug / m3
Trichloroethene	ND< 0.895	ND< 4.76
Vinyl Chloride	ND< 1.90	ND< 4.82

ELAP Number 10958 Method: EPA TO-15 Data File: A2130.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM
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Volatile Analysis Report for Air

Client: Conrad Geoscience

Client Job Site:	Apple Valley Shopping Center Lagrange, NY	**Lab Project Number:**	07-0320
		Lab Sample Number:	Method Blank 400cc
Client Job Number:	AL030070		
Field Location:	N/A	**Date Sampled:**	N/A
Field ID Number:	N/A	**Date Received:**	N/A
Sample Type:	Air	**Date Analyzed:**	1/23/2007

Halocarbons	PPBv	ug / m3
cis-1,2-Dichloroethene	ND< 0.100	ND< 0.393
Tetrachloroethene	ND< 0.100	ND< 0.671

Halocarbons	PPBv	ug / m3
Trichloroethene	ND< 0.0471	ND< 0.250
Vinyl Chloride	ND< 0.100	ND< 0.254

ELAP Number 10958 Method: EPA TO-15 Data File: A2131.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger, Technical Director

PARADIGM
ENVIRONMENTAL SERVICES, INC. 179 Lake Avenue Rochester, New York 14608 (585) 647 - 2530 FAX (585) 647 - 3311

Volatile Analysis Report for Air

Client: Conrad Geoscience

Client Job Site:	Apple Valley Shopping Center Lagrange, NY	**Lab Project Number:**	07-0320
		Lab Sample Number:	Method Blank 20cc
Client Job Number:	AL030070		
Field Location:	N/A	**Date Sampled:**	N/A
Field ID Number:	N/A	**Date Received:**	N/A
Sample Type:	Air	**Date Analyzed:**	1/24/2007

Halocarbons	PPBv	ug / m3
cis-1,2-Dichloroethene	ND< 1.90	ND< 7.46
Tetrachloroethene	ND< 1.90	ND< 12.7

Halocarbons	PPBv	ug / m3
Trichloroethene	ND< 0.895	ND< 4.76
Vinyl Chloride	ND< 1.90	ND< 4.82

ELAP Number 10958 Method: EPA TO-15 Data File: A2172.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

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Volatile Analysis Report for Air

Client: **Conrad Geoscience**

Client Job Site:	Apple Valley Shopping Center Lagrange, NY	**Lab Project Number:**	07-0320
		Lab Sample Number:	Method Blank 400cc
Client Job Number:	AL030070		
Field Location:	N/A	**Date Sampled:**	N/A
Field ID Number:	N/A	**Date Received:**	N/A
Sample Type:	Air	**Date Analyzed:**	1/24/2007

Halocarbons	PPBv	ug / m3
cis-1,2-Dichloroethene	ND< 0.101	ND< 0.397
Tetrachloroethene	ND< 0.101	ND< 0.677

Halocarbons	PPBv	ug / m3
Trichloroethene	ND< 0.0476	ND< 0.253
Vinyl Chloride	ND< 0.101	ND< 0.256

ELAP Number 10958 Method: EPA TO-15 Data File: A2173.d

Comments: ND denotes Non Detect
PPBv = Parts per Billion volume
ug / m3 - Microgram per cubic meter.

Signature: _____
Bruce Hoogesteger: Technical Director

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 • (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:	
COMPANY:	Conrad Geoscience Corp	COMPANY:	SAME
ADDRESS:	1 Civic Center plaza, Suite 501	ADDRESS:	
CITY / STATE / ZIP:	Poughkeepsie NY 12601	CITY / STATE / ZIP:	
PHONE / FAX:	845 454-2544 / -2655	PHONE / FAX:	
ATTN:	Brian Goodwin	ATTN:	
COMMENTS:	Please return any of our coolers. Only report tetrachloroethylene, vinyl chloride, trichloroethylene, and cis-1,2-dichloroethylene		

PROJECT NAME/SITE NAME: Apple Valley Shopping Center, Lagrange, NY

LAB PROJECT #: 07-0320

CLIENT PROJECT #: AL030070

TURNAROUND TIME: (WORKING DAYS): 1 [ ] 2 [ ] 3 [ ] STD 5 [X] OTHER [ ]

QUOTE #: JD110705 quote

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	TO-15	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	1/16/07	1000	X		SVFT-4	air	1	X	C-1012, R-512	1638
2	↓	1022	↓		SVFT-3	↓	1	↓	C-1010, R-515	1639
3	↓	1042	↓	CPC	SVFT-2 cancel per BG 1/19/07	↓	1	↓	C-1015, R-511	1640
4	↓	1102	↓		SVFT-5	↓	1	↓	C-1002, R-517	1641
5	↓	1051	↓		IAFT-1	↓	1	↓	C-1014, R-509	1642
6	↓	1103	↓		IAFT-2	↓	1	↓	C-1006, R-504	1643
7	↓	1139	↓		SVAP-1	↓	1	↓	C-1021, R-506	1644
8	↓	1143	↓		IAAP-1	↓	1	↓	C-1001, R-508	1645
9	↓	1212	↓		SVSE-1	↓	1	↓	C-1025, R-510	1646
10	↓	1216	↓		IASE-1	↓	1	↓	C-1005, R-500	1647

****LAB USE ONLY BELOW THIS LINE****

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance
Container Type: Comments:	Y [X] N [ ]
Preservation: NA Comments:	Y [ ] N [ ]
Holding Time: Comments:	Y [X] N [ ]
Temperature: NA Comments:	Y [ ] N [ ]

Sampled By	Brian P. Goodwin	Date/Time: 1-17-07/14:00
Relinquished By	Brian P. Goodwin	Date/Time: 1-18-07/17:00
Received By		Date/Time
Received @ Lab By	Elizabeth A. Honck	Date/Time: 1/19/07 1345

Total Cost: [ ]

P.I.F. [ ]

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue
Rochester, NY 14608
(585) 647-2530 • (800) 724-1997
FAX: (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:	
COMPANY:	Conrad Geoscience	COMPANY:	Same
ADDRESS:	One Civic Center Plaza, Suite 501	ADDRESS:	
CITY:	Poughkeepsie	STATE: NY	ZIP: 12601
PHONE:	845-454-2549	FAX: 2655	
ATTN:	Brian Goodwin	ATTN:	

LAB PROJECT #:

CLIENT PROJECT #: AL030070

TURNAROUND TIME: (WORKING DAYS)

STD: 1 2 3 X 5 OTHER

PROJECT NAME/SITE NAME: Apple Valley Shopping Ctr. Lagrange, NY

COMMENTS: Only report PCE, TCE, cis-1,2 DCE and vinyl chloride

QUOTE #: JD110705 quote

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	TO-15	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	1/16/07	1240	X		SVLP-1	air	1	X	C-1013, R-505	16488
2		1243			IALP-1		1		C-1007, R-514	16489
3		1303			SVSF-1		1		C-1026, R-513	16490
4		1305			IASF-1		1		C-1004, R-507	16491
5		1334			SVDS-1		1		C-1022, R-520	16492
6		1336			IADS-1		1		C-1009, R-502	16493
7		1353			OA		1		C-1023, R-518	16494
8										
9										
10										

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y [X]	N [ ]
Comments:		
Preservation: NA	Y [ ]	N [ ]
Comments:		
Holding Time:	Y [X]	N [ ]
Comments:		
Temperature: NA	Y [ ]	N [ ]
Comments:		

Brian P. Goodwin 1-17-07/14:00
Sampled By Date/Time

Brian P. Goodwin 1-18-07/17:00
Relinquished By Date/Time

Received By Date/Time

Elizabeth A. Hornch 1/19/07 1345
Received @ Lab By Date/Time

Total Cost:

P.I.F.