State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION



Interoffice Memorandum

FOR ROUTING TO OTHER THAN THE ADDRESSEE						
То:	Loctn:					
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То:	LOCTN:					
FROM:	Date:					

TO:

Satish Kastury

FROM:

Armando Gonzalez

DATE:

January 5, 1986

SUBJECT:

Safety Kleen Corp., FLD 980 847 271

Construction Permit Application HC29-118986

Response to fourth NOD 22

Attached, please find the additional submittal by the referenced facility. Two (2) copies have been enclosed.

AG/br



December 11, 1986 EJJ 86-408

Mr. Armando Gonzales, Permitting Engineer Florida Dept. of Environmental Regulation Southwest District 7601 Highway 301 North Tampa, FL 33610

Re: Safety-Kleen Corp. FLD 980847271

Construction Permit Application HC29-118986

Dear Mr. Gonzales.

Please find attached information concerning wells in the vicinity of the subject facility; the nearest well is more than one mile from the facility.

In addition, the secondary containment of the accumulation center was miscalculated (Exhibit I.D.5-2b) and the permit application has been revised to include the correct information. Initially, the volume of the secondary containment was calculated using only the amounts held by the sumps. It should also include the volume held by the sloped floor (35,135 gallons).

Supplemental information, concerning the materials to be stored at the facility, has been added to the permit application. The following information has been added:

- 1. a description of the paint waste collection service and analyses of this waste
- 2. a description of the industrial solvents collection service and acceptance criteria for these wastes

safety-kleen corp

Mr. Armando Gonzales December 11, 1986 Page 2

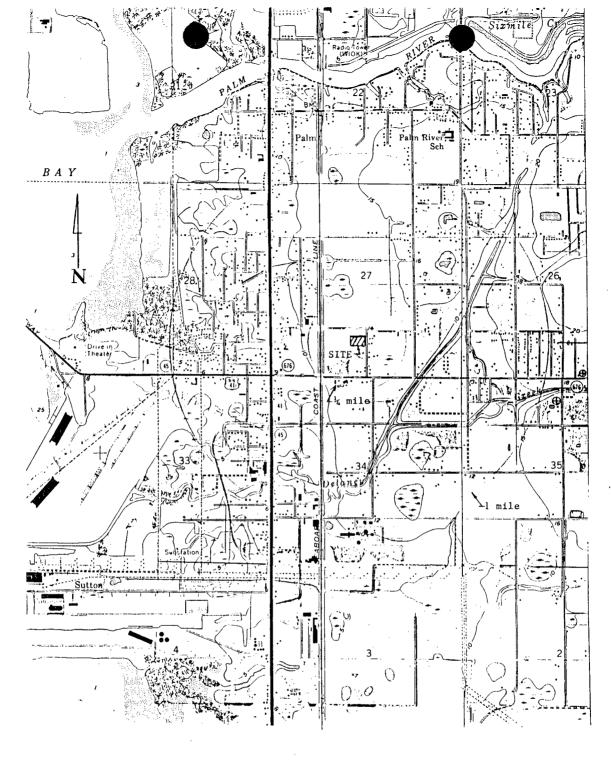
You should note that these revisions will not affect the design capacity of the facility. If you have any questions or require further information, please contact me on extension 2246.

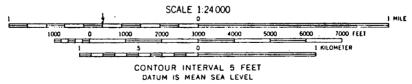
Sincerely,

Mrczak, P.E. Environmental Engineer/

EJJ/dfs

cc: T. Becker, Tampa Reg. Mgr.
F. Taylor, Br. Mgr. (3-163-01)





TAMPA, FLA. N2752.5—W8222.5/7.5

1956 PHOTOREVISED 1969 AMS 4539 IV NW-SERIES V847 ⊕- Well Location

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I.A.20-2	Part A Permit Application - July 3, 1985
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- I.F.3-1 Certification of Liability Insurance National Union Fire Insurance

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Exhibit I.A. 20-1

US WASTE PERMIT APPLICATION

Consolidated Permits Program

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A. FIRST APPLICATION (PA						,	
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B. REVISED APPLICATION		and complete [tem labou	e;		·4 [75] ·6 [79] ·	
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III. PROCESSES – CODES A							
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C. SPACE FOR ADDITIONAL PROCES CODES OR FOR DESCRIBING OTHER PROCESSES (code "T04"). FOR EACH PROCESS ENTERED HERE

Later Street

IV. DESCRIPTION OF HAZARDOUS WASTES

- EPA HAZAROGUS WASTE NUMBER Enter the rour-aight number from 40 CFR, Support D for each listed hazardous waste you will handle, it you hangle hazzrdous westes which are not listed in 40 CFR, Support D, enter the four-digit number(s) from 40 CFR, Support C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- 3. ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminator entered in column A estimate the total annual quantity of all the non-listed waste/s/ that will be handled which possess that characteristic or contaminant.
- 2. UNIT OF MEASURE For each quantity entered in column & enter the unit of measure code. Units of measure which must be used and the acoroprist.

ENGLISH UNIT OF MEASURE CODE METRIC UNIT OF MEASURE CODE METRIC UNIT OF MEASURE CODE "-POUNDS. KILOGRAMS KILOGRAMS

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

PROCESSES
1. PROCESS CODES:

). PROCESSES

1. PROCESS CODES:

For listed hezardous wester. For each listed hazardous weste entered in column A select the code/s/ from the list of process codes contained in Item III to indicate how the weste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code/s/ from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous westes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes, if more are needed: (1) Enter the first three as described above: (2) Enter "000" in the extreme right box of Item IV-0(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

IOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous westes that can be described by fore than one EPA Hazardous Wasta Number shall be described on the form as follows:

- 1. Select one of the EPA Hazardous Waste Numbers and enter it in column A, On the same line complete columns 8,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treet, store, and/or dispose of the waste.
- 2. In column A of the next line enter the other EPA Hazardous Wests Number that can be used to describe the wasts. In column D(2) on that line enter "included with above" and make no other entries on that line. "included with above" and make no other entries on that line
- 3. Repeat step 2 for each other EPA Hezardous Waste Number that can be used to describe the hazardous weste.

XAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds er year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treet and dispose of three non-listed wastes. Two wastes e corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 30 pounds per year of that weste. Treatment will be in an incinerator and disposal will be in a landfill.

	A. EPA		C. UNIT	D. P	ROCESSES
NO.	HAZARD. B. ESTIMATED ANNUAL O WASTEND QUANTITY OF WASTE		OF MEA- SURE (enter code;	1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a code ω not entered in $D(1)$)
G-1	K 0 5 4	900	P	703080	
(-2	D 0 0 2	400	P	T 0 3 D 8 0	
(-3	0001	100	P	T 0 3 D 8 0	
<u>-</u>	D 0 0 2				included with above

A Form 3510-3 (6-80)

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V. DESCRIPTION OF HAZARDOUS WAST		nued)	建物品的	THE RESERVE	
A. EPA HAZARD. B. ESTIMATED ANNUAL ZO WASTENO: QUANTITY OF WASTE JZ (enter code)	C. UNIT OF MEA- SURE (enter code)	1. PROCE	SS CODES (er)	(if a coas u	ESS DESCRIPTION (I not entered in D(1))
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EPA Form 3510-3 (6-80)		· · · · · · · · · · · · · · · · · · ·			CONTINUE ON REVERSE

ve more than 15 wastes to list.

NOTE: Photocopy this pace perom completing if yo

certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached ocuments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the ibmitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information,

C. DATE SIGNED

cluding the possibility of fine and imprisonment.

Burton E. Ericson

Revised December 11, 1986:

NAME (print or type)

then from the regeneration center back to the service center. The small quantities of residue remaining in the storage tanks at the service centers and after distillation of the used solvent at our solvent recycling plants are disposed of in accordance with applicable laws and regulations.

This closed loop provides Safety-Kleen with most of its solvent requirements; the resultant stabilized cost benefits are passed on to its customers. Ownership of the solvent remains with Safety-Kleen; the service center managers are accountable for the quantities of clean and used solvents handled by their branch operations. The service centers are basically a temporary storage and transfer facility. By Florida DER definition, however, these centers are considered to be the waste generator (I.D.1).

Safety-Kleen also provides a dry cleaning waste reclamation service where drums and boxes of dry cleaning wastes (chlorinated) are collected and stored temporarily at the service centers before shippment to the recycle centers for reclamation and residue disposal.

In addition, Safety-Kleen provides a paint waste reclamation service. Wastes containing various thinners and paints are collected in five gallon pails and sixteen gallon drums and are stored at the accumulation center (see Exhibit I.D.5-2b) in a room in the southwest corner of the building. These wastes are periodically shipped to a reclaimer, and the regenerated solvent is distributed to Safety-Kleen customers for use as product.

Safety-Kleen offers generators of large quantities of industrial solvents a reclamation service through its industrial solvents collection service. Wastes containing mineral spirits, halogenated solvents and lacquer thinners are shipped from the generator to the accumulation center in 55-gallon drums. The drums are then shipped to the Safety-Kleen recycle center in Lexington, South Carolina or to an independent reclaimer.

I.D.2.b-1 SPECIFICATIONS OF THE HAZARDOUS WASTE

In Accordance with U.S. EPA Hazardous Waste Regulations, five types of hazardous waste have been identified at the Service Center:

- 1. The used mineral spirits solvent, returned from customers in separate drums transferred and stored in the aboveground tank awaiting shipment to the Recycle Center, is considered to be an Ignitable Waste and EP Toxic (D001/D008). In addition, drummed mineral spirits is received from industrial solvents customers. This material is stored in 55-gallon drums.
- 2. The used chlorinated solvent, returned from customers in separate drums and remaining in the same drum for shipment to the Recycle Center, is considered to be a Listed Waste from Non-Specific sources (F002 and F004);
- 3. Mineral spirits dumpster mud, and tank bottom sludge accumulated in the solvent return receptacles (wet dumpsters) and in the sludge tank, is considered to be an Ignitable Waste (D001) and possibly an EP Toxic Waste (D006 and/or D008); and
- 4. The spent halogenated solvents, collected from dry cleaning facilities in separate drums and remaining in the same drum for shipment to the Recycle Center, is considered to be a Listed Waste from Non-Specific Sources (F002). In addition, halogenated solvents (F001/F002) are accepted and stored as a result of the industrial solvents collection service.
- 5. Paint wastes and paint equipment cleaning wastes, primarily related to non-halogenated solvents, are considered to be Ignitable and/or Listed Waste from Non-Specific Sources (Waste Code: F003 and F005). These wastes are collected in pails and in drums at the customer's facility and remain in their containers until received by the reclaimer.

A typical composition, and chemical and physical analysis for each of the waste streams listed above is shown in Exhibits ID2-1 through ID2-8a based on existing data on these wastes generated from similar processes within Safety-Kleen's current and/or potential customers.

Material Safety Data Sheets for the Mineral Spirits, Immersion Cleaner, Dry Cleaning Solvent (Perchloroethylene), Lacquer Thinner and industrial solvents are presented in Exhibits I.D.2-9 through I.D.2-18 respectively.

(still residues) are in liquid form and consist of primarily detergent, oil and grease, vinyl acetate (a sizing compound) and 20 to 30 percent of solvent.

Exhibit I.D.2-11 shows the Material Safety Data Sheet for tetra- (or per-) chloroethylene solvent.

I.D.2.b-7 PAINT WASTES

Paint wastes consist of various lacquer thinners (D001, F003, and F005) and paints (D006, D007 and D008). The waste is collected in black five gallon pails and sixteen gallon drums at the customer's place of business and the containers are then palletized and stored in an enclosed metal shelter. It is anticipated that this facility will ship 200,000 gallons of paint waste to a reclaimer annually. Exhibit I.D.2-8a shows the typical composition of waste paint related material. Exhibit I.D.2-12 is a Material Safety Data Sheet for lacquer thinner.

I.D.2.b-8 INDUSTRIAL SOLVENTS

Seven solvents are collected from industrial solvent users: mineral spirits (D001, D006, D008); 1,1,1-trichloroethane (F001,F002); per- and trichloroethylene (F001,F002); methylene chloride (F001, F002); 1,1,2-trichloro-1,1,2-trifluoroethane (F001,F002) and lacquer thinners (F003, F005). These wastes are shipped in 55-gallon drums and are stored on pallets. It is anticipated that 35,000 gallons of spent mineral spirits, 143,000 gallons of spent halogenated solvents and 55,000 gallons of spent lacquer thinners will be shipped from the accumulation center to a reclaimer on an annual basis. Exhibit I.D. 2-8b is a list of acceptance criteria for industrial solvents.

1/6

(512) 333-4011

KDM company

May 21, 1986

LABORATORY ANALYSIS

WASTE STREAM:

Waste Paint Related Material

SOURCE:

Safety-Kleen 5 gallon cans

METHOD(S):

Dry weight determination

Dry distillation Gas chromatograph

% RECOVERY:

90%

% SOLIDS:

1 %

1000

ANALYSIS:

Water &	Methanol	1.5%
Acetone		16%
M-E-K		24%
Lacquer	Diluent	5%
MIBK		6%
Toluene		39%
Xylenes		6%
Others		2.5%
		100%

(512) 333-4011

KDM company

May 21, 1986

LABORATORY ANALYSIS

WASTE STREAM:

Waste Paint Related Material

SOURCE:

Safety-Kleen 16 gallon drums

METHOD(S):

Dry weight determination

Dry distillation Gas chromatograph

% RECOVERY:

72%

% SOLID:

9%

ANALYSIS:

H₂0 1% 13% Acetone IPA 8% M-E-K Lacquer Diluent 3% MIBK 40% Toluene 20% Xylene 3% EE Acetate Others

(512) 333-4011

KDM company

August 13, 1986

LABORATORY AMALYSIS

WASTE STREAM:

WASTE PAINT RELATED MATERIAL

SOURCE:

SAFETY KLEEN

16 gallon drums

METHOD(S):

DRY WEIGHT DETERMINATION

DRY DISTILLATION GAS CHROMATOGRAPH

% RECOVERY:

76%

% SOLIDS:

12%

ANALYSIS:

H₂O

IP Acetate 1%

MEK

IPA

6% 8%

1%

Acetone

8.5%

Lacquer Dilvent 3.5%

M-I-B-K

2%

Toluene

38%

n Butyl Acetate 4%

PM Acetate

14.5%

Xylenes

11.5%

Others

2%

100%



August 13, 1986

LABORATORY ANALYSIS

WASTE STREAM:	WASTE PAINT RELATE	D MATERIAL
SOURCE:	SAFETY KLEEN	5 gallon cans
METHOS(S):	DRY WEIGHT DETERMI DRY DISTILLATION GAS CHROMATOGRAPH	NATION
% RECOVERY:	84%	
% SOLIDS:	2%	
ANALYSIS:	H ₂ O	3%
	IP Acetate	.5%
	M-E-K	10%
	IPA	5.5%
	Acetone	5%
ar'	Lacquer Dilvent	6%
	M-I-B-K	6%
	Toluene	45%
	n-Butyl Acetate	2.5%
	PM Acetate	3%
	Xylenes	12%
	Others _	1.5%
		100%

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MAINTENANCE RECOMMENDATIONS: These recommendations are based upon the assumption of testing representative samples and correct, complete operating data.

UNIT DESCRIPTION: This includes unit ID, type of equipment, type of system and lubricant information.

OPERATING DATA

Date Sampled is the date you indicate on ID slip or sample bottle cap when sample is taken.

Unit Life is the time in miles or hours since the unit was new or overhauled.

Oil Life is the time in miles or hours the oil has been in use when the sample was taken.

Oil Added is the amount of oil added since the last oil drain.

PHYSICAL DATA INTERPRETATIONS

Fuel Dilution is the amount of unburned fuel in the sample. It results from leaking internal fuel lines, injectors, pumps, cold running engines, carburetor malfunction, timing and ignition problems.

Suspended Solids measures solids held in suspension by natural detergency and chemical additives. It consists of oxidation products and blow-by residues. Fuel soot is a major contributor to solids in diesel engines.

Water Glycol measures the amount of condensed water and coolant. Water may enter from contaminated lube oil supplies or internal coolant leaks.

Viscosity is reported in centistokes at 40°C and 100°C. Increase or decrease in grade is significant.

Fuel dilution will reduce viscosity. Oxidation products or contamination may increase viscosity.

TYPICAL SOURCES OF SPECTRO ELEMENTS

<u>Iron:</u> Rings, cylinders, shafts, gears, discs, drums, bearings, valve and gear trains, rust and residual assembly debris.

<u>Aluminum:</u> Pistons, bearings, blowers, airborne dirt, gears, pumps, thrust washers, impellers, pump bodies and housings.

Chromium: Rings, liners, shafts, cylinder rods, cooling system additives.

Copper: Bearings, bushings, wet clutches, gears, wrist pins, thrust washers, pump parts, oil coolers.

Lead: Bearings, bushings, leaded gasoline, gear lubes, grease.

Tin: Bearings, bushings, babbitt, platings.

Nickel: Bearings, shafts, valves.

Silver: Bearings, wristpin bushings, solder.

Silicon: Airborne dirt, coolant, anti-foam and sealant additives.

Sodium: Coolant and oil additives, salt water, sea atmosphere

Boron: Coolant and oil additives, salt water.

Zinc: Oil additives, bearings, platings.

Phosphorous: Oil and coolant additives.

Calcium: Oil additives, water, grease.

Magnesium: Oil additives, salt water, bearings, aircraft engines.

Barium: Oil and diesel fuel additives, water, grease.

Titanium: Turbines, springs, valves.

Antimony: Bearings, grease.

Molybdenum: Oil additives, piston rings.

Cadmium: Bearings, platings.

SPECIAL TESTS - Includes Neutralization Number, reported as TAN or TBN. Also includes any unusual contamination of significance.

SPECTROGRAPHIC DATA — PARTS PER MILLION BY WEIGHT (PPM)

Spectro analysis measures very fine, dispersed wear metals, dust, oil additives and cooling system additives. Many of these particles are small enough to easily pass through conventional filters. Absolute PPM are not always significant. Sharp increases may indicate a problem developing. Equipment type, age, metallurgy, oil added between drains, oil and coolant. Ititives all contribute to the significance of PPM values.

ACCEPTANCE CRITERIA FOR INDUSTRIAL SOLVENTS

- 1. Solvents suitable for recycling will include mineral spirits, methylene chloride, 1,1,1-trichloroethane, trichloroethylene, and perchloroethylene, or mixtures of these solvents. Freon TF (1,1,2-trichloroethane-1,2,2-trifluoroethene) and TMC (a mixture of Freon and methylene chloride) will be acceptable for recycling but must be authorized.
- 2. A minimum of 50% yield of usable solvent is necessary. Yield is to be calculated as a percentage of the total sample received. Chemical breakdown of distillate should also be reported since this affects whether the distillate can be suitable incorporated into the Safety-Kleen product line.
- 3. The <u>distillate</u> cannot contain more than 5% by volume of aromatic solvents (Toluene + Xylene).
- 4. The <u>distillate</u> cannot contain more than 1% oxygenated solvents. (This excludes the inhibitor packages which should be reported as inhibitors)
- 5. Freon contamination is limited to 1% by volume for chlorinated feedstocks. Materials containing methylene chloride and freon should be noted as producing TMC.
- 6. The <u>raw material</u> cannot contain more than 50% water (free + emulsified). Solids content should not exceed 5% (by centrifuge) by volume.
- 7. Materials with more than 5% solid bottoms are not acceptable feedstocks for normal feed.
- 8. Materials which pose potential safety hazards are not acceptable, i.e. low flash point (less than 100°F), high toxicity and those which pose explosive hazards during processing.
- 9. Materials which contain herbicides, pesticides, PCB's and PBB's are not suitable feedstocks due to the potential for contamination of the processing equipment and facility.
- 10. Materials which contain more than 1% unknown are to be referred to Jim Breece or Clark Rose for a decision on further analysis or rejection, depending upon quantity.
- 11. All sample analyses which are approved by the lab will be forwarded to Jim Breece or Clark Rose for their acceptance prior to authorizing the generator to ship material to a recycle center.
- 12. All sample analyses which are rejected by the lab will be forwarded to Industrial Solvents and Operations to resolve whether or not the material can be accepted under a special processing and pricing arrangement.



MATERIAL SAFETY DATA SHEET SAFETY-KLEEN CORP. 777 Big Timber Rd. Elgin, IL 60120



DENTITY (As Used on Lecel and Lat) Safety-Kleen Lacquer Thinner		MORE.				any meminisi not as must be marked t	
Section Part #6782							
Manufacture's Name Safety-Kleen Corp.			cency Tem /697-8	AGO	noer		
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Elgin, Illinois 60120	-, <u>.</u>	12/	13/85				
		Signa	ture of Pro	COLUMN (COC	-=)		
Section II — Hazardous Ingredients/Identity	Information	1					
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Toluene		200	מתקק	100	חסם	•	-
Mylene		100	תקס	100	מוסכ	•	
Methyl Ethyl Ketone		200	מסס	200	mac	•	
Methyl Iso Butyl Ketone		100	ppm	50	DDM	•	
Acetone		1000	mqç	750	ppm	-	
Isopropanol		400	מוסס	400	מוסכ	-	
Methanol		200	שסמ	200	שמק	•	
Ethanol		1000	ppm	1000	ppm	•	
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Section IV — Fire and Explosion Hazard De					- 11/		
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CO2, foam, dry chemical, water (m:	ist only)					· · · · · · · · · · · · · · · · · · ·	-
Social Fire Figuring Procedures Liquid water may be used to cool (container	s and	firef	ighters	. Howeve	er, due to	differences
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Journal Fire and Explosion Hazards							

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Other Protective Clothing or Equipment N/A	N/A Vork/Hyperic Precious		wear rubbe	er glov				, safety glasses.
	Yon/Hyperic Precious	Other Protective	Classing or Source	maint.	-			

MATERIAL SAFETY ATA SHEET SAFETY-KLEEN CORP. 777 Big Timber Rd. Elgin, IL 60123



Safety-Kleen 1,1,1-Trichloroethane Part No. 645 ection I lanufacturer's Name Safety-Kleen Corp. ddress (Number, Street, City, State, and ZIP Code) 777 Big Timber Road, Elgin, IL 60123 ection II—Hazardous Ingredients/Identity Information		s available, the ap	d. If any item is not ace must be marked	to indicate thi
Manufacturer's Name Safety-Kleen Corp. ddress (Number, Street, City, State, and ZIP Code) 777 Big Timber Road, Elgin, IL 60123	312/697-8460 Telephone Numbe 312/697-8460 Date Prepared 11/7/85, Revi	<u></u>	•	
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ddress (Number, Street, City, State, and ZIP Code) 777 Big Timber Road, Elgin, IL 60123	Telephone Number 312/697-8460 Date Prepared 11/7/85, Revi	r for Information		
777 Big Timber Road, Elgin, IL 60123	312/697-8460 Date Prepared 11/7/85, Revi	r for information		
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ection II—Hazardous Ingredients/identity Information	Signature of Prepa	ised 6/17/86		
ection II—Hazardous Ingredients/identity Information	1	rer (optionel)		
	<u>, L</u>			
azardous Components (Specific Chemical Identity; Common Name	(S)) OSHA PEL	ACGIH TLV	Other Limits Recommended	% (option
1,1,1-Trichloroethane	350 ppm	350 pp m	-	- 11 - 12 - 1
Diethylene ether	100 ppm	25 ppm	· · · · · · · · · · · · · · · · · · ·	2.0
(The hazard information presented is based on tests	conducted on this (or similar miv	tures.)	
The hard throughton produced to based on costs	CONGRETE ON CHIEF	71 3141141	carcs.,	
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action III. Physical Chemical Characteristics				
ection III—Physical/Chemical Characteristics				
ection III—Physical/Chemical Characteristics oiling Point	Specific Gravity (H	20 = 1)		1.321
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apor Pressure (mm Hg.) 165°F 100 mm HG @ 20	Melting Point	2 ^O = 1)		
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apor Pressure (mm Hg.) apor Density (AIR = 1) apor Density (AIR = 1) 4.55 clubility in Water 0.07g/100g @ 25°C appearance and Odor Clear and water white - characteristic chlorinated of the control of the contr	Melting Point Evaporation Rate (toluene = 1)	20 = 1)		N/A 2.38
apor Pressure (mm Hg.) apor Density (AIR = 1) apor Density (AIR = 1) 4.55 colubility in Water 0.07g/100g @ 25°C appearance and Odor Clear and water white - characteristic chlorinated of the color (Method Used) None extinguishing Media CO2, foam, dry chemical, water (mist only) appearance Fighting Procedures	Melting Point Evaporation Rate (toluene = 1) odor. Flammable Limits		8.0	N/A 2.88 UEL 10.5
apor Pressure (mm Hg.) apor Density (AIR = 1) apor Density (AIR = 1) 4.55 colubility in Water 0.07g/100g @ 25°C appearance and Odor Clear and water white - characteristic chlorinated of the color (Method Used) None extinguishing Media CO2, foam, dry chemical, water (mist only) appearance Fighting Procedures	Melting Point Evaporation Rate (toluene = 1)		8.0	N/A 2.88 UEL 10.5
apor Pressure (mm Hg.) apor Density (AIR = 1) apor Density (AIR = 1) 4.55 colubility in Water 0.07g/100g @ 25°C appearance and Odor Clear and water white - characteristic chlorinated of the color (Method Used) None extinguishing Media CO2, foam, dry chemical, water (mist only) appearance Fighting Procedures	Melting Point Evaporation Rate (toluene = 1) odor. Flammable Limits		8.0	N/A 2.88 UEL 10.5
apor Pressure (mm Hg.) apor Density (AIR = 1) apor Density (AIR = 1) 4.55 colubility in Water 0.07g/190g @ 25°C appearance and Odor Clear and water white - characteristic chlorinated of the color (Method Used) None extinguishing Media CO1, foam, dry chemical, water (mist only) appearance if Fighting Procedures Self-contained respiratory equipment. Not considere	Melting Point Evaporation Rate (toluene = 1) odor. Flammable Limits		8.0	N/A 2.88 UEL 10.5
apor Pressure (mm Hg.) apor Density (AIR = 1) apor Density (AIR = 1) 4.55 olubility in Water 0.27g/100g @ 25°C ppearance and Odor Clear and water white - characteristic chlorinated of section IV—Fire and Explosion Hazard Data lash Point (Method Used) None xtinguishing Media C02, foam, dry chemical, water (mist only) pecial Fire Fighting Procedures	F. Melting Point Evaporation Rate (toluene = 1) odor. Flammable Limits ed flammable under r		8.0	N/A 2.88 UEL 10.5

Section V—Rea	ctivity Data	\				
Stability	Unstable		Conditions to Avoid			
	Stable	X	Flames, welding ar	os and	lother high tem	mperatures.
Incompatability (M			207705:110 3514		· · · · · · · · · · · · · · · · · · ·	
	nyarolysis prod		corrosive acid.			
	e, CO, CO, upon		ustion			
Hazardous Polymenzation	May Occur		Conditions to Avoid None			·
	Will Not Occur	Х				
Section VI-He	eith Hazard Data	1				
Route(s) of Entry:	inha	lation?	ves	Skin?	yes	ingestion?
	Acute and Chronic)	ritat		no cor		Short contact - no irritation. Prol
or frequent	exposure - mino	rırr	itations. If confine	d to t	he skin - up to	o moderate irritation - even a burn.
Very low ski	n absorption.	Anest	netic effects - may o	ccur i	n the range of	500 to 1,000 ppm.
Carcinogenicity:	NTP			IARC M	lonographs?	OSHA Regulated?
incidence in Signs and Sympto	humans or anim oms of Exposure	nals;	l,l,l-Trichloroethane	is no	ot listed by IAM	no pethane causes an increased cancer RC, NTP, or DSHA as a carcinogen.
Drying and b	urning of skin.	Ane	sthetic effect at con	centra	tions of 500 to	o 1,000 ppm.
Medical Condition Generally Aggravi	-	Un	known			
Section VII—Pr	recautions for Sa n in Case Material	ite Hai s Relea	ndling and Use No spe some s used or Spilled exposu	cific olvent re may	antidote known s drinking alco cause undesira	VOMITING. Call a physician immediat. Treat symptomatically. Caution-wohol shortly before during or after able effects. rks, fire or hot metal surfaces.
Waste Disposal M Dispose of i		ith co	mpany, local, state a	nd fed	deral regulation	ns.
Combustible. operations a from the roo	re contined in	om hea	t, sparks and flame.	Norma n no n	al room ventilad	tion is usually adequate. If cleans visions should be made to exhaust as
Other Precautions Avoid long a		ntact	with skin. After pro	longe	i solvent contac	ct with hands, use skin cream to res
			ingest. Keep out of			
	ontrol Measures					
	ction (Specify Type)		ratus for poorly vent	ilated	i areas.	
Ventilation	Local Exhaust				Special	
	Mechanical (Ger	nerel)	ilation to keep vapor		N/A Other	
	If contact is		elow TLV level. ged, use protective		Protection	Cautions
	errier cream. Clothing or Equipm	ent		1 10	es - normal pred	C46C1U((5)
	neadgear and ap		en splashing is a pro	blem.		
, •	ractices when using th	is pro	duct.			

MATERIAL SAFETY DATA SHEET SAFETY-KLEEN CORP. 777 Big Timber Rd. Elgin, IL 60123

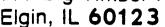


	ed on Laber and Lis en Trichloro		ene, Pa	rt #649	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.					
Section I										
Manufacturer's N Safety-Kle		-			Emergency Telepr 312/697-	none Number 8460				
Address (Number, 777 Big Ti	, Street, City, State, mber Road	and ZIP	Code)		Telephone Number 312/697-					
Elgin, IL	60123				Date Prepared 11/7/85,	revised 4/	24/86			
					Signature of Prepi	arer (optional)				
Section II—Haz	zardous ingredie	nts/ider	ntity info	ormation		· · · · · · · · · · · · · · · · · · ·				
	onents (Specific Ch				OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)		
Trichloroe	thylene (Sta	biliz	ed)		100 ppm	50 ppm				
								·		
Section III—Ph	ysical/Chemical	Charac	teristics			· · · · · · · · · · · · · · · · · · ·				
Boiling Point		@ 760	mu	180° F.	Specific Gravity (H	120 = 1)		1.46		
vapor Pressure (r	······································	@ 68°	F	58	Melting Point		_	N/A		
vapor Density (Al	·			4.54	Evaporation Rate (toluene =	1)		0.28		
Solubility in Wate 1000 ppm	or .									
Appearance and				-						
	orless liqui			roform-like	odor					
	re and Explosion	Hazaro	Data		T			· · · · · · · · · · · · · · · · · · ·		
Fl <mark>ash Point (Meth</mark> None (tag					Flammable Limits N/A		LEL	UEL		
Extinguishing Me										
<u>Carbon dio</u> Special Fire Fight	xide, dry ch	emica	lorf	oam.						
As appropr	iate for sur	round	ing fi	re						
	Explosion Hazards		1		_1 _ 1	-1				
					plode violen					
		lame	to yie	ld HCl gas,	and phosgene	e gas under	some condit	ions.		
Section V—Rea					······································					
Stability	Unstable			ns to Avoid ct from moi	st air; do no	ot store in	pits, basem	ents or		
	Stable	X	unven	tilated are	as.					
ncompatability (A Reacts wit	Materials to Avoid) th strong alk	cali t			sly flammabl	e dichloroa	cetylene.			
Hazardous Decon	nposition or Byprod	ucts			sgene, COCl ₂					
dazardous Polymerization	May Occur			ns to Avoid	<u> </u>					
•	Will Not Occur									
		لــــــــــــــــــــــــــــــــــــــ		D 4 (O	a on Powers Side)					

Section VI—Healt	th Hazard Data				,
Route(s) of Entry:	innalation? Yes	Skin? Yes		ingestion? Yes	······································
	ne and Chronic) Skin-Defat				
sensation and	d lachrymation. Inha	lation-symptoms	range from in	ritation of the nose and	<u>d</u>
throat to nat	usea, an attitude of	irresponsibility	, blurred vis	sion and finally disturb	ance
of the centra	al nervous system res	ulting in cardia	c failure.		
Carcinogenicity:	NTP? no	IARC Mo	nographs?	OSHA Regulated?	
Trichloroeth	vlene is not listed o	n the OSHA. NTP.	or IARA care	rinogen lists.	
Signs and Symptom Eye irritation		. Irritation of	nose and thi	roat, nausea.	
Medical Conditions Generally Aggravate	d by Exposure Unknown				
Emergency and Firs Eyes-Flush th	n Aid Procedures noroughly with water.	Skin-wash thore	oughly with s	soap and warm water. Ap	ply
lanolin ointr	ment. Ingestion-drum	k water and indu	ce vomiting.	Repeat three times, the	en
If necessary.				ation-Remove to fresh ai oxygen. Ingestion-Produ	
Section VII—Prec	autions for Safe Handling an	d Use			
	n Case Material is Released or Sp l protective equipmen		l in absorber	nt material, as sand, ra	gs,
etc., or con	tain spill and pump in	nto drums or con	tainers for o	lisposal. Wash down area	a wit
soapy water a	and flush with water.				
Waste Disposal Met Dispose of in	hod n akcordance with com	oany, local, sta	te and federa	l regulations.	
Precautions to Be T Avoid physica	aken in Handling and Storing all damage to drums; s	tore in ventilate	ed areas, not	in pits or basement.	Prote
storage tank	vents with a dryer to	prevent entry o	of moist air.		
Other Precautions				eact with trichloroethyle	ana t
			oxide, can re	act with triemoroethyr	ene co
	eously flammable dich	loroacetylene.			
Section VIII—Cor					
Respiratory Protects Organic vapor	on <i>(Specity Type)</i> r-acid gas canister:	self-contained by	reathing appa	ratus for emergencies.	
Ventilation	Local Exhaust		Special		
	General room ventila				
	Mechanical (General) exhaust at points of		Other		
Protective Gloves		Eye Pr	otection	goggles plus face shield	1.
Other Protective Clo	nyl, polyethylene, et othing or Equipment				
Neoprene safe	ety shoes; neoprene s	uits or aprons fo	or splash pro	tection.	
Work/Hygeienic Prai Do not smoke	ctices when using this prod	uct.			
-					

MATERIAL SAFETY DATA SHEET SAFETY-KLEEN CORP.

777 Big Timber Rd. Elgin, IL **60123**





parery-wie	sed on Label and List en Perchloroe			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.					
Section I		Part	#737						
Manufacturer's N Safety-Kle				Emergency Telep 312/697-84					
	Street, City, State,	and ZIP Code))	Telephone Numb 312/697-84	er for information				
				Date Prepared					
Elgin, III	incis 60123			11/7/85, r Signature of Pres	evised 4/24/	36			
				Signature of Free	erer (oppone)				
Section II—Haz	zardous ingredien	ts/Identity	Information						
Hazardous Comp	ponents (Specific Che	mical Identity	y: Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optiona		
Perchloroe	thylene (Stab	ilized)	_	100 ppm	50 ppm				
									
	nysical/Chemical (Characterist	tics			· · · · · · · · · · · · · · · · · · ·			
Boiling Point			250°F	Specific Gravity (H ₂ O = 1)		1.6		
Vapor Pressure (mm Hg.)	@ 20 ⁰ C	13	Melting Point		<u> </u>	N/A		
Vapor Density (A	iA = 1)		5.8	Evaporation Rate			0.09		
Solubility in Wate		· · · · · · · · · · · · · · · · · · ·	1 3.0	(toluene =	[)		0.09		
Negligible									
Appearance and									
	clear liquid								
Flash Point (Metr	re and Explosion	Hazard Dat	<u> </u>	Flammable Limits		LEL	UEL		
	closed cup)			N/A					
None (tag									
Extinguishing Me									
Extinguishing Me N/A Special Fire Figh	iting Procedures				<u></u>				
Extinguishing Me N/A Special Fire Figh	odi a	ng equipπ	nent should be	e used by fir	emen in buil	ding where			
Extinguishing Me N/A Special Fire Figh Self-conta Perchloroe	dia ning Procedures nined breathin ethylene is st		nent should be		emen in buil	ding where			
Exinguishing Me N/A Special Fire Figh Self-conta Perchloroe Unusual Fire and	ndia Iting Procedures Itined breathir Ithylene is st Explosion Hazards	ored. K	(eep containe	cocl.			not		
Extinguishing MeN/A Special Fire Fight Self-conta Perchloroe Unusual Fire and Vapors can	nting Procedures ained breathir athylene is st d Explosion Hazards a be ignited b	ored. K	eep containe	r cocl. On source. D	ecomposes wi		not		
Exinguishing Me N/A Special Fire Figh Self-conta Perchloroe Unusual Fire and Vapors can surfaces t	nting Procedures ained breathir athylene is st d Explosion Hazards a be ignited to acidic gase	ored. K	eep containe	r cocl. On source. D	ecomposes wi		not		
Extinguishing Me N/A Special Fire Figh Self-conta Perchloroe Unusual Fire and Vapors can surfaces t Section V—Re	nting Procedures ained breathir ethylene is st d Explosion Hazards a be ignited b to acidic gase activity Data	ored. K	eep container	r cocl. On source. D	ecomposes wi		not		
Extinguishing MeN/A Special Fire Fight Self-conta Perchloroe Unusual Fire and Vapors can	nting Procedures ained breathir athylene is st d Explosion Hazards a be ignited to acidic gase	ored. K	eep containe	r cool. on source. D oxic substanc	ecomposes wi e.	th fire or b			
Extinguishing Me N/A Special Fire Figh Self-conta Perchloroe Unusual Fire and Vapors can surfaces t Section V—Re	nting Procedures ained breathir ethylene is st d Explosion Hazards a be ignited b to acidic gase activity Data	oy high es and or	energy ignition ther highly to	r cool. on source. D oxic substanc	ecomposes wi e.	th fire or b			
Extinguishing Me N/A Special Fire Figh Self-conta Perchloroe Unusual Fire and Vapors can surfaces t Section V—Rei	nting Procedures ained breathir ethylene is st d Explosion Hazards a be ignited b to acidic gase activity Data Unstable	oy high es and or	energy ignition there highly to the stock with open tract with	r cool. on source. D oxic substanc	ecomposes wi e.	th fire or b			
Extinguishing Me N/A Special Fire Figh Self-conta Perchloroe Unusual Fire and Vapors can surfaces to Section V—Res Stability Hazardous Decor	nting Procedures ained breathir ethylene is st d Explosion Hazards a be ignited b to acidic gase activity Data Unstable Stable Materials to Avoid)	cored. K by high e es and ot Cond Con X wel	energy ignition there highly to the things to Avoid that with operations are.	r cool. on source. Doxic substance en flame, hot	ecomposes wi e. surfaces or	th fire or b			
Extinguishing Me N/A Special Fire Fight Self-contal Perchloroe Unusual Fire and Vapors can surfaces to Section V—Rei Stability Incompatability (A	ining Procedures inined breathir ethylene is st sexplosion Hazards be ignited b to acidic gase activity Data Unstable Stable Materials to Avoid) imposition or Byproduchloride, phos	cored. K by high e es and ot Cond Con X well cts signe and	energy ignition ther highly to the micros to Avoid tract with operations are.	r cool. on source. Doxic substance en flame, hot	ecomposes wi e. surfaces or	th fire or b			
Extinguishing Me N/A Special Fire Figh Self-conta Perchloroe Unusual Fire and Vapors can surfaces t Section V—Re Stability Incompatability /A	nting Procedures ained breathir ethylene is st d Explosion Hazards a be ignited b to acidic gase activity Data Unstable Stable Materials to Avoid)	cored. K by high e es and ot Cond Con X well cts signe and	energy ignition there highly to the things to Avoid that with operations are.	r cool. on source. Doxic substance en flame, hot	ecomposes wi e. surfaces or	th fire or b			
Extinguishing Me N/A Special Fire Figh Self-conta Perchloroe Unusual Fire and Vapors can surfaces t Section V—Rei Stability Hazardous Decor Hydrogen co	ining Procedures inined breathir ethylene is st sexplosion Hazards be ignited b to acidic gase activity Data Unstable Stable Materials to Avoid) imposition or Byproduchloride, phos	cored. K by high e es and ot Cond Con X well cts signe and	energy ignition ther highly to the micros to Avoid tract with operations are.	r cool. on source. Doxic substance en flame, hot	ecomposes wi e. surfaces or	th fire or b			

Section VI-Her	aith Hazard Data		
Route(s) of Entry:	Inhaiation?	Skin?	ingestion?
	yes	yes	ves
	cute and Chronic)		
Overexposur	re can cause vomiting, r	ausea, drowsiness, unconsc	lousness and even death in
extreme cas	ses.		
Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	no	no	no
Perchloroet	thylene has been identif	ied as an animal carcinoge	n by NTP, but is not listed
on IARC or	OSHA carcinogen lists a	is of August 1985.	
Signs and Sympto	oms of Evangura		
	drowsiness, nausea.		
Medical Condition	S		
Generally Aggrava	ated by Exposure Unknown.	_	
	irst Aid Procedures		
Move to fre	esh air. Remove contami	nated clothing. If breath	ing has stopped, administer
artificial	respiration. Keep warm	and quiet. Call a physic	ian. Eye contact - wash
		ever administer adrenaline.	
With Cobio	ds amounts of water. Ne	ever administer adrenaline.	
Section VII-Pro	ecautions for Safe Handling and	Use	
	n in Case Material is Released or Spill		
Evacuate th	ne area, ventilate, avoi	d breathing vapor or comin	g in contact with liquid.
Clean up an	rea (wear protective clo	thing), contain spill, tra	nsfer by mopping or with
absorbent t	material to storage cont	ainer.	
Waste Disposal M	etnod		
Dispose of	in accordance with comp	any, local, state and fede	ral regulations.
	Taken in Handling and Storing		
Avoid conta	act with skin and avoid	vapors. Pipe vents outdoo	rs. Store in cool, dry,
ventilated	area.		
Other Precautions			
Prevent mo:	ist air from entering st	orage. No smoking in pres	ence of vapors.
Section VIII—Co	ontrol Measures		
	ction (Specify Type)		
	red when used with adequ		
Ventilation	Local Exhaust Sufficient to maintain	s below TLV.	
	Mechanical (General)	Other	
Protective Gloves		Eye Protection Chemical safety	anaales.
	viton, PVC coated. Diothing or Equipment	Chemical Salety	5,35,50.
Protective	headgear and apron when	splashing is a problem.	
Work/Hygelenic P			
Do not smo	ke when using this produ	ICE.	



MATERIAL SAFETY DATA SHEET SAFETY-KLEEN CORP. 777 Big Timber Rd. Elgin, IL 60123



Methylene	sed on Label and La Chloride	st)		Note: Blank spaces are not permitted. If any item is not applicable, or ni information is available, the space must be marked to indicate that					
Section I	Part #712								
Manufacturer's N	- - -			Emergency Telepi					
Safety-Kle	en Corp. v. Street, City, State,	and 71	9 Code	312/697-8					
777 Big Ti		and Li		Telephone Number 312/697-8					
	(0) 00			Date Prepared					
Elgin, IL	60123				revised 4/2	4/86			
				Signature of Prep	arer (optional)				
Section II—Ha	zardous ingredie	nts/lde	ntity information						
						Other Limits			
Hazardous Comp	ponents (Specific C)	emical	Identity: Common Name(s))	OSHA PEL	ACGIH TLV	Recommended	% /option		
Methylene	Chloride			mag 002	100 ppm				
					· · · · · · · · · · · · · · · · · · ·				
	_ 								
Section III—PI	hysical/Chemical	Charse	cteristics						
Boiling Point			1010 -	Specific Gravity (H	120 = 1)				
			104° F				1.3		
apor Pressure	(mm Hg.)	920°	C 350	Meiting Point			N/A		
apor Density (A	MR = 1)	3-0	 	Evaporation Rate			37.3		
	•		2.9	(ether = 1)		0.7		
Solubility in Wate	er					· · · · · · · · · · · · · · · · · · ·			
Moderate Appearance and	04%								
	clear liquid	, mil	dly sweet.						
Section IV—Fi	ire and Explosion	Hazar	d Deta						
Fiash Point (Met				Figmmable Limits		LEL	UEL		
	closed cup)			N/A			<u></u>		
Extinguishing Me $-{ m N/A}$	edia								
	nting Procedures								
		ng e	uipment should be	used by fir	<u>emen in bu</u>	ilding where	methylene		
Selt Cours		_							
	is stored. K	leep d	container cool.						
chloride :	d Explosion Hazarda	· · · ·			·				
chloride :	d Explosion Hazarda	· · · ·	container cool. Lgh energy ignitio	n source. D	ecomposes w	ith fire or h	not		
chloride : Unusual Fire and Vapors car	d Explosion Hazarda	by h	lgh energy ignitio	n source. D	ecomposes w	ith fire or h	not		
chloride : Unusual Fire and Vapors car surfaces	d Explosion Hazards n be ignited to corrosive	by h	lgh energy ignitio	n source. D	ecomposes w	ith fire or h	not		
chloride : Unusual Fire and Vapors car surfaces ! Section V—Re	d Explosion Hazards n be ignited to corrosive	by h	lgh energy ignitio	n source. D	ecomposes w	ith fire or h	not		
chloride : Unusual Fire and Vapors car surfaces ! Section V—Re	d Explosion Hazarda n be ignited to corrosive nactivity Data	by h	igh energy ignitio						
chloride : Unusual Fire and Vapors car surfaces ! Section V—Re	d Explosion Hazarda n be ignited to corrosive nactivity Data	by h	Ligh energy ignition toxic fumes. Conditions to Avoid Contact with op						
chloride : Unusual Fire and Vapors car surfaces : Section V—Re	d Explosion Hazarda n be ignited to corrosive eactivity Data Unstable Stable	by h	Ligh energy ignition to xic fumes.						
chloride : Unusual Fire and Vapors car surfaces : Section V—Re	d Explosion Hazarda n be ignited to corrosive eactivity Data Unstable	by h	Ligh energy ignition toxic fumes. Conditions to Avoid Contact with op						
chloride: Unusual Fire and Vapors car surfaces: Section V—Re Stability Incompatability (I	d Explosion Hazards n be ignited to corrosive eactivity Data Unstable Stable Materials to Avoid)	by hand if	Ligh energy ignition to a coxic fumes. Conditions to Avoid Contact with op welding arc.	en flame, ho	t surfaces				
chloride : Unusual Fire and Vapors car surfaces : Section V—Re Stability Incompatability (I	d Explosion Hazards n be ignited to corrosive nactivity Data Unstable Stable Materials to Avoid) mposition or Byprodichloride, pho	by hand if	Conditions to Avoid Contact with op welding arc.	en flame, ho	t surfaces				
chloride: Unusual Fire and Vapors car surfaces: Section V—Re Stability Incompatability (I	d Explosion Hazards n be ignited to corrosive eactivity Data Unstable Stable Materials to Avoid)	by hand if	Ligh energy ignition to a coxic fumes. Conditions to Avoid Contact with op welding arc.	en flame, ho	t surfaces				
chloride : Unusual Fire and Vapors car surfaces : Section V—Re Stability Incompatability (I	d Explosion Hazards n be ignited to corrosive nactivity Data Unstable Stable Materials to Avoid) mposition or Byprodichloride, pho	by hand if	Conditions to Avoid Contact with op welding arc.	en flame, ho	t surfaces				

Section VI—Hea	aith Hazard Data		
Route(s) of Entry:	Inhalation? Ves	Skin?	Ingestion?
Health Hazards (A	cute and Chronic)	ves	yes
Skin-can cau	ise drying of skin. Ey	es-Severe irritant. Inhalat	ion-Excessive inhalation can
cause headad	the, dizziness and naus	ea. Ingestion-Harmful or fa	tal if swallowed.
Carcinogenicity:	no no	IARC Monographs?	OSHA Regulated?
Methylene Ch	nloride has been found	to cause tumors in laborator	y test animals, but is not
			commended. Methylene Chlorid
		ot listed by NTP or OSHA.	
Signs and Sympto	ms of Exposure		
Drying of sk	cin, eye irritation, he	adache, dizziness, nausea.	2222
Medical Conditions Generally Aggrava	s ited by Exposure Unknown		
	rst Aid Procedures		
Move to fres	sh air. Remove contami	nated clothing. If breathir	g has stopped, administer
artificial r	espiration. Keep warm	and quiet. Call a physicia	n. Eye contact-wash with
copious amou	ints of water. Never a	dminister adrenaline.	
Section VII—Pre	cautions for Safe Handling and	d Use	
	in Case Material is Released or Spi	··	day a see a see and a life and a
		d breathing vapor or coming	
Clean up are	ea (wear protective clo	thing), contain spill, trans	ster by mopping or with
absorbent ma	sterial to storage cont	ainer.	
		any, local, state and federa	l regulations.
Precautions to Be	Taken in Handling and Storing at with skin and avoid	vanors Pina vanta autdors	. Store in cool, dry
		vapors. Fipe vents outdoors	s. Store in coor, dry
ventilated a Other Precautions			
		orage. No smoking in presen	ice of vapors.
_			
Section VIII—Co	ontrol Messures		
Respiratory Protect	tion (Specify Type) ed when used with adequ	ate ventilation	
Ventilation	Local Exhaust	Special	
	Sufficient to mainta	in below TLV	
	Mechanical (General)	Other	
Protective Gloves	DVC	Eye Protection	
Other Protective C	iton, PVC coated.	Chemical safet	y goggies.
Protective h	neadgear and apron when	splashing is a problem.	
Work/Hygelenic Pr	ractices e while using this prod	uct.	

MATERIAL SAFETY DATA SHEET SAFETY-KLEEN CORP. 777 Big Timber Rd. Elgin, IL 60123



	ed on Label and Lis	it)		Note: Blank space	s are not permitted	. If any item is not i	spolicable, or no
Safety-Kleen	Solvent F*		Part No. 699	information is	s evallable, the apa	ce must be marked	to indicate that
Section I						•	
Manufacturer's Na	ame			Emergency Teleph	none Number		
Safety-Kleen	Corporation			312/697-9460			
Address (Number,	Street, City, State,	and ZIP (Code)	Telephone Numbe	r for information		
TTT Big Timbe	er Road, Elgin,	IL 6012	3	312/697-8460			
				11/7/85, Revise	ed 07/02/86		
*				Signature of Prepi	erer (optional)		
<u>This is</u>	s the same s	<u>olvent</u>	as Preon TF				· · · · · · · · · · · · · · · · · · ·
Section II—Haz	cardous ingredies	nts/ident	Ity Information				
Hazardous Comp	onents (Specific Ch	emical ide	intity: Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional
Trichlorotrif	Curorothano			mgc 0001	1000 ppm	-	
11.10.1010(1.11	. Idiolethane			2000 55	1000 ppm		
Section III—Ph	ysicsi/Chemical	Characte	ristics				
Boiling Point				Specific Gravity (H	(=C = 1)		I
			117.6°F.	Specific Greatly (·20 - 1)	a. 77°F	1.57
Vapor Pressure (n	mm Hq.)			Melting Point			
9 77°E		°F. 334				1 N/A	
Vapor Density (Al	R = 1)			Evaporation Rate	· 		
,	•		6.5	(CC1, = 1)			0.1
Solubility in Water				<u> </u>	······································		<u> </u>
77°F. 0.02%	by weight						
Appearance and (Odor		_ 				
Colorless lia	quid - slight et	hereal o	odor.				
Section IV-Fir	e and Explosion	Hezerd	Data				
Fiash Point (Meth				Flammable Limits		LEL	UEL
None	ou oseu,			Figurification Chines	None	N/A	N/A
Extinguishing Med	Ata.			1			
Non-flammable							
							
Soecial Fire Fight							
Special Fire Fight None	•						
None							
None Unusual Fire and	Explosion Hazards				***************************************		
None							
None Unusual Fire and		•					
None Unusual Fire and None	Explosion Hazards						
Unusual Fire and None Section V—Rea	Explosion Hazards						
Unusual Fire and None Section V—Rea	Explosion Hazards		conditions to Avoid				
Unusual Fire and None Section V—Rea	Explosion Hazards activity Deta Unstable		Conditions to Avoid Open flames or high	temperatures.			
Vinusual Fire and None Section V—Rea	Explosion Hazards			temperatures.			
None Unusual Fire and None Section V—Rea Stability	Explosion Hazards activity Deta Unstable Stable	-		temperatures.			
None Unusual Fire and None Section V—Rea Stability	Explosion Hazards activity Deta Unstable Stable (areness to Avoid)	Х	Open flames or high				
None Unusual Fire and None Section V—Rea Stability Incompatability (M Alkali or all	Explosion Hazards activity Data Unstable Stable farmers to Avoid) kaline earth met	X x					
None Unusual Fire and None Section V—Rea Stability Incompatability (Markali or all) Hazardous Decompatable (Markali or all)	Explosion Hazards activity Data Unstable Stable fareness to Avoid) kaline earth methoposition or Byprodu	X X tals - p	Open flames or high owdered Al, Zn, Be,	etc.			
None Unusual Fire and None Section V—Rea Stability Incompatability (Markall or all) Hazardous Decome Hydrochloric	Explosion Hazards activity Deta Unstable Stable determs to Avoid) kaline earth memoration or Byproduland hydrofluor	X X x x x x x x x x x x x x x x x x x x	owdered Al, Zn, Be, - possible carbonyl	etc.			
None Unusual Fire and None Section V—Rea Stability Incompatability (Markall or all) Hazardous Decome Hydrochloric Hazardous	Explosion Hazards activity Data Unstable Stable fareness to Avoid) kaline earth methoposition or Byprodu	X X tals - p	owdered Al, Zn, Be, - possible carbonyl	etc.			
None Unusual Fire and None Section V—Rea Stability Incompatability (Markall or all) Hazardous Decome Hydrochloric	Explosion Hazards activity Dets Unstable Stable fareness to Avoid) kaline earth merinposition or Byprodicand hydrofluor May Occur	X X tals - p	owdered Al, Zn, Be, - possible carbonyl	etc.			
None Unusual Fire and None Section V—Rea Stability Incompatability (Markali or all) Hazardous Decome Hydrochloric Hazardous	Explosion Hazards activity Deta Unstable Stable determs to Avoid) kaline earth memoration or Byproduland hydrofluor	X X tals - p	owdered Al, Zn, Be, - possible carbonyl	etc.			

SECTION V — HEALTH HAZARD DATA
THRESHOLD LIMIT VALUE 113 ppm
EFFECTS OF OVEREXPOSURE Severe eye irritationdrying of skinexcessive inhalation causes headache.
dizziness and nausea. Harmful or fatal if swallowed.
EMERGENCY AND FIRST AID PROCEDURES Eye Contact: Flush with water. Skin Contact: Wash with mild soap/water, and apply skin cream. Inhalation: Remove to fresh air and call a
physician; apply artifical respiration if necessary in extremes. Oral: Do not induce
vomiting. Lavage carefully if appreciable quantity was ingested. Guard against aspiration into lungs. Administer 2 to 4 oz. of clive oil. Call a physician.

STABILITY	UNSTABLE	CONDITIONS TO AVOID			
	STABLE	x	Strong	oxidizing agents	
INCOMPATABILIT	Y (Materials to avoid)				
	composition products zene, CO, CO ₂ , t		bustion		
HAZARDOUS POLYMERIZATION	MAY OCCU			CONDITIONS TO AVOID	
	N	CCUR	X		

SECTION VII — SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKENINGASE MATERIALIS RELEASED OR SPILLED Flush with water into retaining area or container. Avoid exposure to sparks.	
fire or hot metal surfaces.	
WASTEDISPOSALMETHOD Dispose in accordance with company or local, state or federal regulations.	
Incinerate under safe conditions.	

	SECTION VIII — SPECIAL PI	TO I ECTION INF	ORMATION
RESPIRATORY PROT	ECTION(Specify type) SSATY breathing apparatus for	poorly venti	lated areas.
VENTILATION	Normal room ventilation. to MECHANICAL (General) Concentration below TLV leve	keep vapor	SPECIAL See special precautions OTHER
PROTECTIVE GLOVES *See below OTHER PROTECTIVE EQUIPMENT PROTECTIVE EQUIPMENT		precautions	

*If skin contact is prolonged, use protective gloves or barrier cream SECTION IX — SPECIAL PRECAUTIONS PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Combustible. Keep away from heat, sparks and open flame. Normal room ventilation is usually adequate. If cleaning operations are confined in a small, enclosed area. OTHER PRECAUTIONS with no moving air, provisions should be made to exhaust air from the room. Avoid long and repeated contact with skin. After prolonged solvent contact with hands, use skin creams to restore or replace natural oils. Do not ingest. Keep out of the reach AGE(2) GPC 934-110 of children. Form OS-A-20 PAGE (2)

Rev. May 72

MATERIAL SAFET DATA SHEET SAFETY-KLEEN CORP. 777 Big Timber Rd. Elgin, IL 60123



IDENTITY (As Us Safety-Kleen	Solvent FMC		No. 700			d. If any item is not a ace must be marked	
Section I					——————————————————————————————————————		
Manufacturer's N				Emergency Teleph	none Number		
Safety-Kleen				312/697-8460			
	Street, City, Stere,			Telephone Numbs	r for information		
777 Big Timbe	er Road, Elgin,	IL 60.	123	312/697-8460			
				Date Prepared	-1 07/02/06		
·	······································			11/8/85, Revis			
* This	is the same	solve	nt as Freen TMC	Signature of Frapi	mer (opeories)		
			ntity information				
tazardous Comp	onents (Specific Ch	emical 1	dentity: Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optone
Trichlorotri				1000 ppm	1300 ppm	-	70 10000172
Methylene Chi	loride			500 pp m	100 pp m	-	49.5
Continue III - Bh		<u> </u>	A				
Boiling Point	ysical/Chemical		TOTAL CO	Sandia Omeri (400 = 1)		
pointy Fullt			97°F	Specific Gravity (H	120=1)	- <u>a</u> ₹7°₹	1.42
apor Pressure (• '	ءِ ٥٦٠	500	Melting Point			, N/A
/apor Density (Al			300	Evaporation Rate			
abor pansity (A)			4.9	(CCl ₄ = 1)			2.3
Solubility in Wate				····			
77°F. 0.66%							
	odor quid - slight et	therea	l odor.				
	e and Explosion						
lash Point (Meth				Flammable Limits		LEL	UEL
None					None	N/A	N/A
Extinguishing Me	dia						
Non-flammable					<u></u>		
Special Fire Fight	ting Procedures						
None							
Unusual Fire and	Explosion Hazards						
None							
Section V—Res	activity Data						
Stability	Unstable	 -	Conditions to Avoid				
Justinity	OlisiaDis.	-	Flames or high tempe	ratures.			
	Stable	†					
		Х					
	<i>Merenes to Avoid)</i> kaline earth me	tals -	powdered Al, Zn, Be,	etc.			
	nposition or Byprodu		ds - possible carbony	l halides.			
Hydrochloric	_, <u></u>	7	Conditions to Avoid				
	May Occur]	Conditions to Avoid None				
Hydrochloric Hazardous	_, <u></u>						

tability			No. of the control of	
	Unstable		Conditions to Avoid	
	Stable	+	Heat, sparks, flame and fire.	
	5145,0	Х		
compatability (Ma		-	-	
trong oxidizi: azardous Decomo		lucts		
			burning may yield carbon monoxide.	
lazardous olymerization	May Occur		Conditions to Avoid None	
orymenzation	Will Not Occur	X	None	
ection VI—Hea	Hh Hannel Bet			
oute(s) of Entry:	inn	ilation? yes	Skin? no	I ngestion? Yes
l eaith Hazards (Ac SKIN - Can cau		skin. E	YES - Severe irritant. INHALATION	N - Excessive inhalation causes headache,
lizziness and	nausea. INGE	STION -	Harmful or fatal if swallowed.	
Carcinogenicity:	NTF	•?	IARC Monographs	OSHA Requisted?
		no		no no
Not a known ca	rcinogen.			
igns and Symptor				
Orying of skin	, eye irritat	ion, hea	dache, dizziness, nausea.	
fedical Conditions		**		
ienerally Aggravat	ed by Exposure	Unknow	Π	
Section VII—Pre	in Case Material	ete Hand	d or Spilled	to sparks, fire, flame, hot surfaces.
Vaste Disposal Me	ethod			
Vaste Dispo sa i Me			ny, local, state and federal regu	
Vaste Disposal Me Dispose of in	accordance wi	th compa	ny, local, state and federal regu	
Naste Disposal Me Dispose of in Precautions to Be	accordance wi	th compa	ny, local, state and federal regu	lations.
Naste Disposal Me Dispose of in Precautions to Be Combustible.	accordance wi Taken in Handling Keep away fro	th compa g and Stor m heat,	ny, local, state and federal reguing sparks, flame. Use with adequate	lations. ventilation. Avoid long and repeated conta
Vaste Disposal Me Dispose of in Precautions to Be Combustible.	accordance wi Taken in Handling Keep away fro	th compa g and Stor m heat,	ny, local, state and federal reguing sparks, flame. Use with adequate	lations. ventilation. Avoid long and repeated conta
Vaste Disposal Me Dispose of in Precautions to Be Combustible. with skin. If	accordance wi Taken in Handlin Keep away fro	th compa g and Stor m heat, inadvert	ny, local, state and federal reguing sparks, flame. Use with adequate	lations. ventilation. Avoid long and repeated conta
Vaste Disposar Me Dispose of in Precautions to Be Combustible. with skin. If	accordance wi Taken in Handlin Keep away fro	th compa g and Stor m heat, inadvert	ny, local, state and federal reguing sparks, flame. Use with adequate	lations. ventilation. Avoid long and repeated conta
Vaste Disposal Me Dispose of in Precautions to Be Combustible. with skin. If Other Precautions Keep out of re	accordance wi Taken in Handlin Keep away fro clothes are each of childr	th compa g and Stor m heat, inadvert	ny, local, state and federal reguing sparks, flame. Use with adequate	lations. ventilation. Avoid long and repeated conta
Vaste Disposal Me Dispose of in Precautions to Be Combustible. with skin. If Other Precautions Keep out of re Section VIII—Co	Taken in Handlink Keep away fro clothes are each of children control Measures tion (Specify Type	th compa and Stor m heat, inadvert en.	ny, local, state and federal reguing sparks, flame. Use with adequate	ventilation. Avoid long and repeated conta
Vaste Disposar Me Dispose of in Precautions to Be Combustible. with skin. If Other Precautions Keep out of re Section VIII—Co Respiratory Protect Self-contained	Taken in Handlink Keep away fro clothes are each of children control Measurestion (Specify Type breathing ap Local Exhaust	and Storm heat, inadverten.	ny, local, state and federal requing sparks, flame. Use with adequate ently saturated with solvent - DO for concentrations above TLV limi	ventilation. Avoid long and repeated conta
Vaste Disposal Me Dispose of in Precautions to Be Combustible. with skin. If Other Precautions Keep out of re Respiratory Protect Self-contained	Taken in Handling Keep away fro clothes are each of childr control Measures tion (Specify Type i breathing ap	th compa gand Stor m heat, inadvert en.	ny, local, state and federal requing sparks, flame. Use with adequate ently saturated with solvent - DO for concentrations above TLV limi	ventilation. Avoid long and repeated conta
Vaste Disposal Me Dispose of in Precautions to Be Combustible. with skin. If Other Precautions Keep out of re Respiratory Protect Self-contained Ventilation	Taken in Handling Keep away fro clothes are each of childr control Measures tion (Specify Type breathing ap Local Exhaust Normal room Mechanical (Ge None.	th compa gand Stor m heat, inadvert en.) paratus ventila	ing sparks, flame. Use with adequate ently saturated with solvent - DO for concentrations above TLV limi special None. Other None.	ventilation. Avoid long and repeated conta NOT SMOKE - Keep away from ignition sources
Vaste Disposal Me Dispose of in Precautions to Be Combustible. with skin. If Other Precautions Keep out of re Section VIII—Co Respiratory Protect Self-contained Ventilation	Taken in Handling Keep away fro clothes are each of childr control Measures tion (Specify Type breathing ap Local Exhaust Normal room Mechanical (Ge None.	th compa gand Stor m heat, inadvert en.) paratus ventila	ny, local, state and federal requiring sparks, flame. Use with adequate ently saturated with solvent - DO for concentrations above TLV limi special None. Other None. use, wear rubber Eye Protection	ventilation. Avoid long and repeated conta
Vaste Disposal Me Dispose of in Precautions to Be Combustible. With skin. If Other Precautions Keep out of re Section VIII—Co Respiratory Protect Self-contained Ventilation Protective Gloves	Taken in Handlink Keep away fro clothes are each of childr control Measurestion (Specify Types breathing ap Local Exhaust Normal room Mechanical (General None. In case of progloves.	g and Storm heat, inadvertien. paratus ventilaneral)	ny, local, state and federal requiring sparks, flame. Use with adequate ently saturated with solvent - DO for concentrations above TLV limi special None. Other None. use, wear rubber Eye Protection	ventilation. Avoid long and repeated conta NOT SMOKE - Keep away from ignition sources
Vaste Disposal Me Dispose of in Precautions to Be Combustible. with skin. If Other Precautions Keep out of re Section VIII—Co Respiratory Protect Self-contained Ventilation Protective Gloves Other Protective C	Taken in Handlim Keep away fro clothes are each of childr ontrol Measure tion (Specify Type i breathing ap Local Exhaust Normal room Mechanical (Ge None. In case of pr gloves. lothing or Equipm actices	and Storm heat, inadvertien. paratus ventilaneral) colonged	ny, local, state and federal reguling sparks, flame. Use with adequate ently saturated with solvent - DO for concentrations above TLV limition. Special None. Other None. use, wear rubber Eye Protection Yes - e	ventilation. Avoid long and repeated conta NOT SMOKE - Keep away from ignition sources

ATTACHMENT I.D.3

WASTE ANALYSIS REPORTS

I.D.3 WASTE ANALYSIS REPORTS

A typical composition of the analysis of the hazardous wastes handled at the facility is described in Sections I.D.2.b-1 to I.D.2.b-7 and waste analysis reports in Exhibits I.D.2-1 thru I.D.2-8a.

I.D.4.a-1 WASTE ANALYSIS - GENERAL

The used immersion cleaner is the primary feed stock for regeneration of Safety-Kleen's clean solvent products. Quality control of the used solvents is critical to the recycle center to safely recycle the material and to assure quality products. The closed loop system of managing the clean and used solvents is therefore designed to minimize the possibility of product contamination from outside sources. Within the closed loop, ownership of the material remains with Safety-Kleen and the product is leased to the customer.

Prior to leasing a parts cleaning machine, the customer's business activity is reviewed. Where the possibility exists for contamination of the mineral spirits, i.e., pesticide, herbicide, pharmaceutical, printing operations, the process is reviewed to insure that contamination of the product does not occur.

Sales representatives are instructed to visually examine the spent product when the machines are serviced, noting the consistency and volume of material recovered. The odor of the material is also noted to detect the presence of volatile materials such as gasoline. If a different odor is noted, the customer is warned that the material must not be contaminated. If the problems is not corrected, the machine is removed from the customer.

The dry cleaning and paint wastes are collected from facilities where a single process is managed at the facility and possibility of cross contamination by other chemicals or wastes is minimal.

The contents of the drums are verified by the sales representative when he services the customer and, comparable to the handling of immersion cleaner, the drums are not reopened until they reach the recycle center.

Prior to accepting an industrial solvents customer's waste for recycling, a sample is drawn and analyzed at Safety-Kleen's laboratory in Elgin, Illinois. The criteria used to determine whether a waste is acceptable for recycling are Exhibit ID2-8b. The drums are not opened until they reach the recycle center. Samples of the waste collected at the recycle center and the contents of the drum are either verified and accepted or rejected. Rejected wastes are either returned to the customer or properly disposed of.

I.D.4.a-2 WASTE ANALYSIS AT THE SERVICE CENTER

The Safety-Kleen Service Center in Tampa serviced numerous small quantity waste generator customers in 1984 and over 1,700 16-gallon drums of immersion cleaner solvents were delivered to the customers for degreasing operations and subsequentally returned to the Service Center for recycling at Safety-Kleen's Recycle Centers. With the dry cleaning services, the number of customers who generate small quantities of wastes and use Safety-Kleen's recycling services has increased dramatically. With such large numbers of waste generators, performing waste analyses from each or selected generating point would become very costly and unmanageable.

Furthermore, all the materials collected at the Service Center and subsequently shipped to the Recycle Center are either managed at all times in the closed loop system or will be collected from a single purpose process. General nature and quality of these materials are known and Safety-Kleen's operating experiences have shown that the collected materials do not usually deviate from expectation and impact the recycling process. As an additional safe-guard, Safety-Kleen's personnel are instructed to inspect all materials before returning them to the Service Centers.

For these reasons, all waste analyses will be performed at the Recycle Center, as described in Section, I.D.4.a-3.

In accordance with 40 CFR 264.13(a), Safety-Kleen will also perform physical and chemical analysis of a waste stream when it is notified or has reason to believe that the process or operation generating the waste has changed, or when the result of inspection indicates that the waste to be collected does not match the waste designated. It is Safety-Kleen's practice that suspected non-conforming material must not be accepted until an analysis has been done or the material must be rejected.

I.D.4.a-3 WASTE ANALYSES AT THE RECYCLE CENTER

Analyses performed at the Recycle Centers are undertaken to safeguard the recycling process and to assure the product quality. The following Exhibits summarize a typical waste analysis plan at the Recycle Center related to the hazardous materials returned from the Service Center:

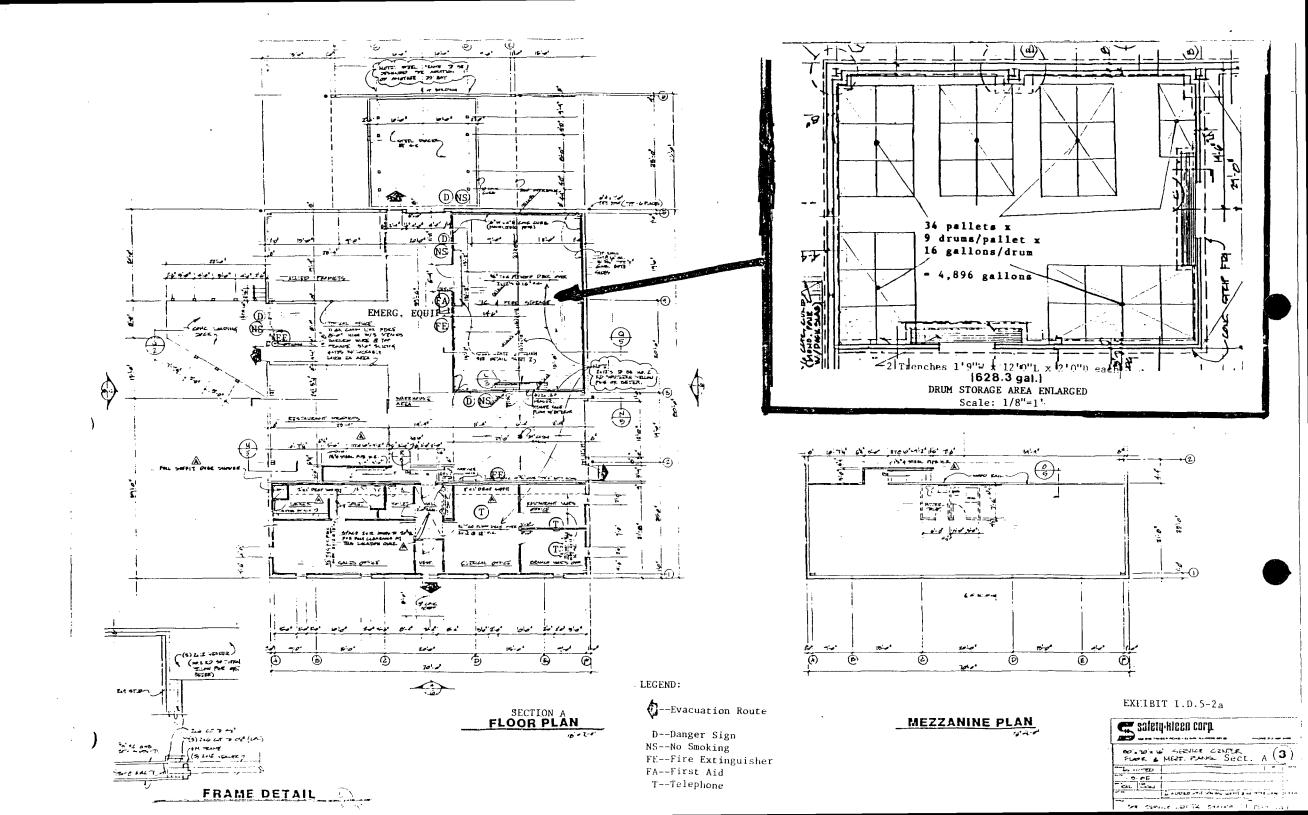
Exhibit I.D.4-11 Parameters and Rationale for Hazardous
Waste Selection

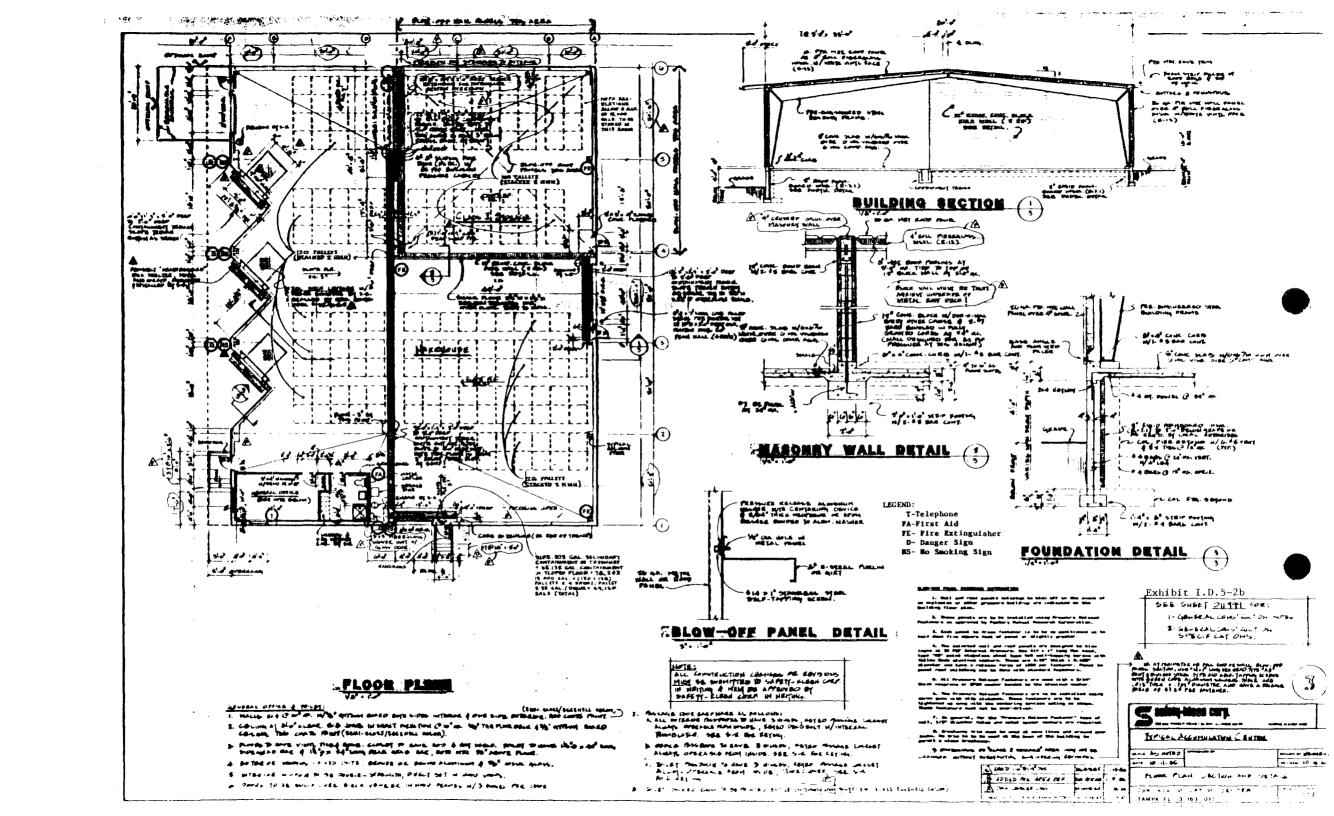
Exhibit I.D.4-12 Parameters and Test Methods

Exhibit I.D.4-13 Methods Used to Sample Hazardous Wastes

Exhibit I.D.4-14 Frequency of Analysis

A profile of the paint waste is in Exhibit 2-8a. It will be reanalyzed when the reclaimer to whom it is shipped requests reanalysis or when a change in the use of the product occurs.





temporarily at the Service Center. The drums are picked up periodically for recycling at the Recycle Center. The paint and industrial wastes are collected from the customers' premises and stored at the accumulation center until they are delivered to a reclaimer.

Exhibits I.D.5-1, I.D.5-2a and I.D.5-2b showing the basic site and floor plans, particularly, the locations of waste management facilities and emergency equipment and facility storage.

I.E.2.b EMERGENCY NOTIFICATION

1. Emergency Coordinator

The Branch Manager or his designate is the emergency coordinator. Exhibit I.E.2-1 includes the names, home addresses, and both office and home phones of the primary emergency coordinator and his alternates. At all times there is at least one employee either on the facility premises or on call with responsibility for coordinating all emergency response measures. This primary emergency coordinator and alternate emergency coordinator are thoroughly familiar with all aspects of the facility's contingency plan, all operations and activities at the facility, the location and characteristics of materials handled, the location of all records within the facility and the facility layout. In addition, these coordinators have the authority to commit the resources needed to carry out the contingency plan.

The drums are designed and constructed to be compatible with the stored material and to minimize the possibility of breakage and leaking, in accordance with DOT Shipping Container Specification Number 5B. Exhibits I.E.3-1 to I.E.3-4 show typical detailed construction specifications of the 16-gallon immersion cleaner drums. The containers used to store dry cleaning wastes are shown in Exhibits 3-4a and 3-4b. Industrial solvents are stored in 55-gallon drums.

The drum storage area in the service center (Exhibit I.D. 5-2a) has secondary containment in the form of curbing and collection trenches. The two collection trenches measure $12' \times 2' \times 1-3/4'$ each (628.3 gallons total). No more than 6,283 gallons of spent solvent will be stored in this area.

The accumulation center is used for the collection of containers and boxes from Safety-Kleen service centers and industrial solvents customers prior to shipment to a Safety-Kleen recycle center or an independent reclaimer. Service centers in Florida ship their drummed wastes (dumpster sediment, spent immersion cleaner, dry cleaning wastes and paint wastes) to this warehouse for storage prior to reclamation. In addition, industrial solvents customers ship their drummed wastes directly to the accumulation center for storage.

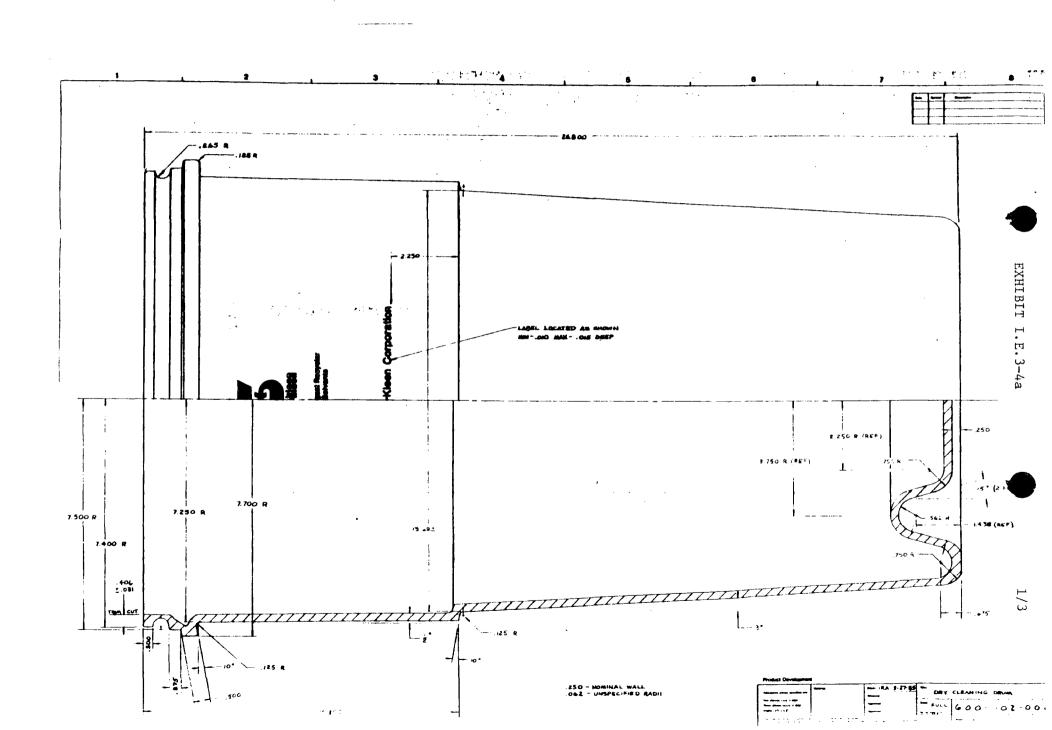
The drum storage area in the accumulation center (Exhibit I.D. 5-2b) has secondary containment in the form of a sloped floor with trenches at the lowest point. The secondary containment will hold 38,243 gallons; no more than 69,120 gallons will be stored in this building.

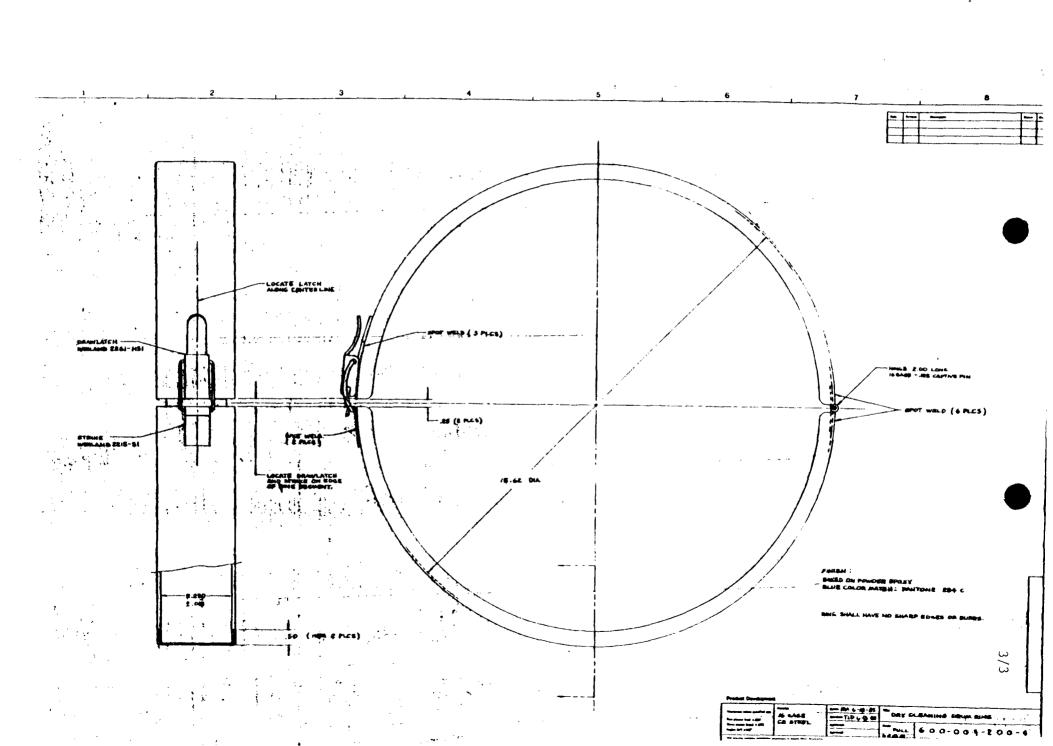
The containers will be stored in the configurations shown on the Floor Plans, Exhibit I.D. 5-2b. At least two feet of aisle space will be maintained and the drums will be stored no more than two high. Containers will be placed on pallets and moved with a forklift or pallet jack whenever possible. Otherwise, drums will be moved using a handcart.

The above storage capacities, based on drum stacking configurations shown in Exhibits I.D.5-2a and I.D.5-2b, (75,403 gallons) does not exceed the process design capacity volume presented, in Section III.B of the Part A permit application, Exhibit I.A.20-2.

I.E.3.c STORAGE TANKS

The facility consists of two 12,000-gallon capacity aboveground steel tanks. Used mineral spirits contained in returned drums from the customers are transferred via the wet dumpster into one of these two





			Page 2- of 11			
Date	Symbol	Description	Drawn	Checked		
4/18/86	,	Released ECO 402	· SRT	JPK		
						

BOX -- STANDARD DRY-CLEANING FILTER

Configuration: Die-cut, turkey-fold lock container requiring no taping.

Material: 275-pound-test, double-wall craft glued cartons with Michelman coating for water resistancy.

Size: Inside dimensions to be 16.9/16" x 16.9/16" x 15" deep.

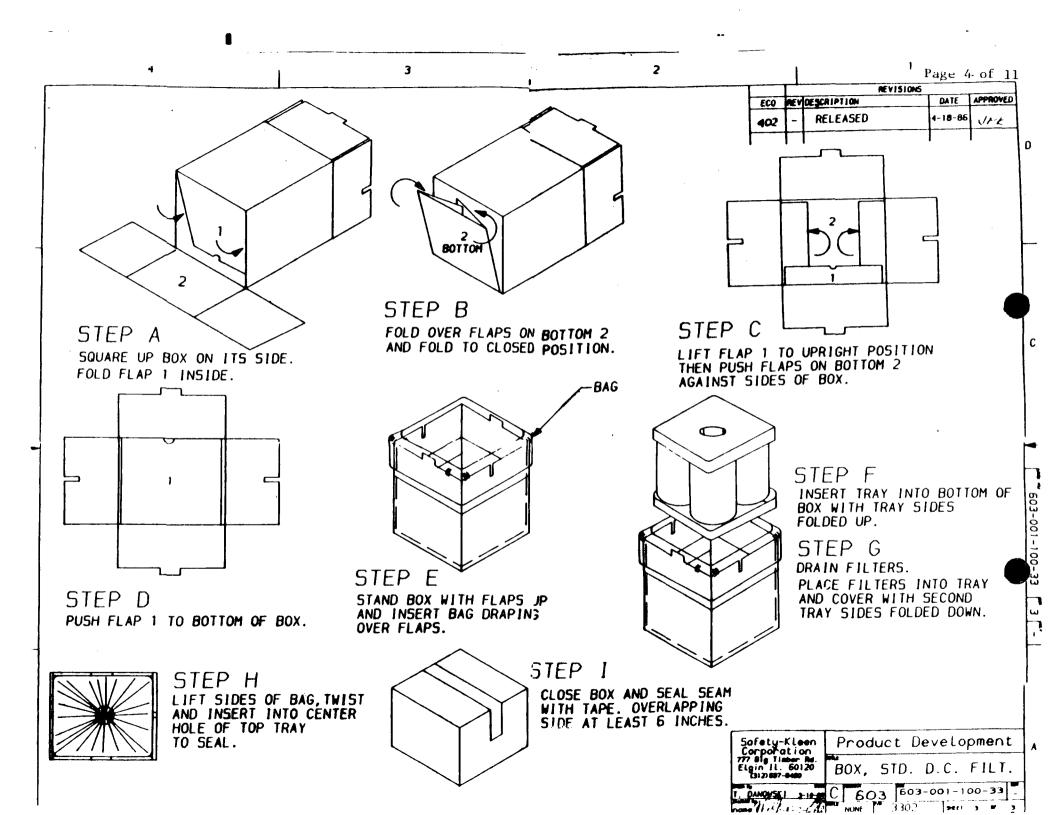
Other Required Features: Container to have instructions for proper assembly on two upper flaps as indicated in Safety-Kleen drawing # 603-001-100-32 (sheet 2) and # 603-001-100-33 (sheet 3).

Qualified Vendor(s): Mack Chicago Container Corp., Chicago, Illinois.

Product Development

*-1	Material:	Drawn: SRT	Title:				
Tolerances unless epecified are:		Checked: JPK	Box, S	td DC Filt			
Two places (xx) 2.020 Three places (xxx) 2.005		Approved: JPK files ling	Scale:	(0)	- 001	– 100	– 1 1
Angles (x*) ±1/2*		Approved:	Do not scale print	603		100	1
This drawing contains information p Any disclosure or reproduction in part	roprictory to Safety-Kleen Corporation. tor in whole is expressly prohibited excep	at by a written agreement from Safety-Klee	n .	Sheet 1 of 3	Revision:	P/N 3302	

Safety-Kleen Corporation, 777 Big Timber Road, Elgin, Illinois 60120



			Page 6 of 11			
Date Symbol	Description	Drawn Checke				
4/18/	4/18/86	Released ECO 402	JPK DAI			

TRAY -- STANDARD DRY CLEANING FILTER BOX

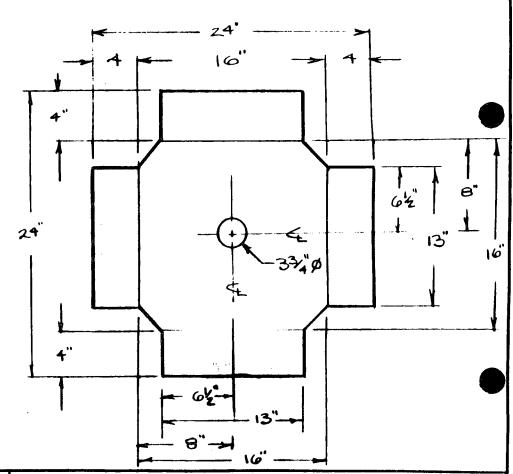
Configuration: A flat scored tray with broken corners when folded into position, with a 3/34" diameter hole in the center of the tray.

Material: 275-pound-test, C-fluted corrugated.

Size: 16" x 16" x 4" deep.

Other Required Features: Corners of the tray shall be broken so as not to tear the poly-nylon-poly bag into which the tray is inserted.

Qualified Vendor(s): Mack Chicago Container Corp., Chicago, Illinois.



Product Development

Tolerances unless specified are:	Material: EEE ABOVE	Checked: PHL		d DC Filt	Bx		
Two places (xx) ±.020 Three places (xxx) ±.005 Angles (x*) ±1/2*		Approved:	Scalè: Do not scale print	603	003	_ 10	0 - 1
This drawing contains information propriotory to Safety-Kleen Corporation. Any disclosure or reproduction in part or in whole is expressly prohibited except by a written agreement from Safety-Kleen.			Sheet] of] Revision:		P/N 3307	

	ين ميسود المساود	Page 8' of 11				
Date	Symbol	Description	Drawn	Checked		
4/18/	6	Released ECO 402	SRT	JPK		

DISPENSER -- FOR TAPE FOR STANDARD DRY CLEANER BOX

Configuration: 2" tape dispenser

Qualified Vendor(s): Elgin Paper Co., Elgin, Illinois. (Vendor's product # H180)

Product Development

	Material:	Drawn: SRT	Title:	:1. p. m.			
Tolerances unless specified are:		Checked: JPK	Disp, Filt Bx Tape				
Two places (xx) \$.020		Approved: JPK ////		1			
Three places (xxx) 2.005		Approved: JPK ////C	Scale:	(00	005	- 100	4
Angles (x*) ±1/2*		Approved:	Do not scale print	603	- 005	- 100	- 1
This drawing contains information proprietory to Safety-Kleen Corporation. Any disclosure or reproduction in part or in whole is expressly prohibited except by a written agreement from Safety-Kleen.			Sheet of	Revision:	P/N 3310		

Safety-Kleen Corporation, 777 Big Timber Road, Elgin, Illinois 60120

SAFETY-KLLEN CORPORATION
Job No. 86211
Page 10 of 11

GAYNES TESTING LABORATORIES, INC.

Container Set-Up:

- 1. Four (4) Filters drained for 1 hour
- 2. One (1) assemble container
- 3. One (1) Plastic Bag placed in the container
- 4. A bottom tray was placed in the plastic bag
- 5. The four (4) filters were placed in the bag and in the tray
- 6. The top tray was placed over the four (4) filters
- 7. The plastic bag was closed and the twisted end was stuffed in a center hole of the top tray
- 8. The top flaps of the container were closed and taped with 2" plastic tape.

Test Procedure & Results:

Drop Test -

Using a Gaynes Free Fall Drop Tester, each container was subjected to three (3) drops from a height of 12 inches as follows:

lst. Drop flat on the Bottom, 2nd. Drop on a Bottom edge and 3rd. Drop on a Bottom corner.

Results - All containers ok; no immediate indication of leakage.

All six (6) containers were stored for 48 hours to determine if leaking would develop during that period.

Inspection after 48 hours indicated that containers no. 4 and no. 5 were leaking. This leakage in each package was caused by a small tear in the plastic bag. (See Photo no. 1).

Rotary Motion Vibration -

The four (4) remaining containers were placed in their normal upright shipping positions on the table of a Gaynes Rotary Motion Vibration Tester having a table displacement of 1.0 inch (See Photo no. 2). With the containers side by side and one end against the back stop, the machine was activated and the speed was increased until it was possible to move a 1/16 inch steel shim about 4 inches between the bottom of the container and the table surface. This occurred at a frequency of 220 rpm. After 15 minutes, the machine was stopped and the packages were inspected, and then were rotated 90° for a 2nd. 15 minutes of vibration at 220 rpm.

Results - All containers ok; no indication of leaking.

PAINT WASTE CONTAINER

SPECIFICATIONS

The empty 5 gallon pail is ordered under Safety-Kleen part number 9986, per the following specification:

5 gallon, 24 gage steel tighthead pail, black exterior, rust inhibited interior, DOT17E, with handle and 2" flange and plug.

11" outer diameter x 13-19/32" high

The current empty 16 gallon drum is ordered under Safety-Kleen part number 3362, per the following specification:

16 gallon, 20 gage steel closed head drum, with 2" bung and 3/4" bung, per DOT17E

14-7/8" outer diameter x 26-7/8" high

An anticipated closure schedule can be seen in Exhibit H-1. An anticipated maximum waste inventory for the facility is presented in the following section.

I.F.1.b FACILITY DATA

l. Waste Management Facility Descriptions

a. Aboveground Storage Tank
A 12,000-gallon steel tank, 10'6" diameter x 18'8" high, for used Mineral Spirits storage.

b. Drum Storage Areas

In Section A, 40'x 30' area with 6" wide by 4" high continuous curbing with collector sumps. It has capacity for 252 16-gallon, immersion cleaner drums; and 18 16-gallon Mineral Spirits dumpster mud drums; 54 16-gallon and 60 30-gallon dry cleaning waste drums (Perc), or a variation of specific drum contents within the total drum count.

In Section B, approximately 80' x 100' area with 6" wide by 4" high concrete curbing, sloped floors, collection trenches and sumps. It has capacity for 1,134 16-gallon immersion cleaner drums; 630 16-gallon and 250 30-gallon dry cleaning waste drums (Perc), or a variation of specific drum contents within the total drum count.

c. Solvent Return/Fill Shelter, two 10' x 25', with one solvent return receptacle (wet dumpster) each and associated appurtenances.

2. Maximum Inventory of Wastes

a. Used Mineral Spirits: 12,000 gallons

b. Drummed Waste: 75,403 gallons

IF1-2

I.F.1.e CLOSURE COST ESTIMATES

1. Tank Closure - Open, remove contents of, and clean, remove, and dispose of, a 12,000-gallon 10'6" diameter x 18'8" high aboveground storage tank.

Access to Tank \$ 350

Remove Material: The costs involved in off-site transportation and reclamation are adequately compensated by the economical value of the used solvent. Assume no net cost gain or loss.

Squeegie Clean Tank and Testing of wash water \$ 800

Dispose of wash water: 1,000 gal. at \$0.15/gal. \$ 150

Disconnect and cap all appurtenant piping and equipment

2 man-days at \$30/hr. \$ 480

Torch cut the tank
16 hours at \$40/hr.

Remove tank

\$ 640

350

Total Closure Cost for the 12,000-Gallon tank

\$2,770

 CLOSURE OF DRUM STORAGE AREAS - Remove and return drums to the Recycle Center, clean the drum storage areas, and dispose of wash water generated.

а.	Remove and return drums to	
	the Recycle Center, 150 miles at	
	\$1.75/mile, 20 trips	\$5,250**
b.	Clean the storage area - 8	
	man-hours at \$30.00/hour	\$ 240
c.	Dispose of the wash water -	
	200 gallons at \$.15/gallon	\$ 30
	Total Closure Cost	\$5,520

3. CLOSURE OF DUMPSTER AND RETURN/FILL SHELTER AREA - Remove, package and dispose of sludge, clean the dumpster and return/fill shelter area, remove dumpster and shelter structure for reuse.

а.	Remove, package and dispose of sludge - 600 gallons at \$.75/gallon	\$	452
b.	Clean dumpster and shelter area -		
	8 man-hours at \$30.00/hour	\$	240
c.	Remove dumpster and shelter -		
	8 man-hours at \$40.00/hour	<u>ş</u>	320
	Total Closure Cost	\$1	,012
CER	TIFICATION OF CLOSURE	\$	500

4.

5. TOTAL CLOSURE COSTS

Aboveground Tanks: \$2,770
Drum Storage Area: 5,520
Solvent Return/Fill: 1,012
Certification: 500
Total \$9,802

** Assumed the value of the used immersion cleaner and the drums offsets the cost of treatment by Safety-Kleen facility.

II.B.1 CONTAINMENT

The immersion cleaner is always contained in partially filled, 16-gallon, covered drums before, during, and after its use. Until received at the Recycle Center, the immersion cleaner is never transferred to another container. The drums containing the used immersion cleaner are returned to the Service Center and stored in a designated drum storage area before shipment to the Recycle Center.

The dry cleaning wastes are contained in 16-gallon drums and in lined boxes (16" x 16" x 15"). Paint wastes are stored in 16-gallon drums and in 5-gallon pails. Industrial solvents are stored in 55-gallon drums. The drums are managed similar to the used immersion cleaner drums, and contents within the drums will not be removed or processed at the Service Center.

The drum storage areas as shown on Exhibits I.D.5-2a and I.D.5-2b occupy portions of building areas which have a concrete floor, berms, and interceptor trenches to form a spill containment system. The system is free of cracks and gaps. Spills are removed by a hand-held, portable electric pump (the COMS pump), wet-dry vacuum cleaner, or sorbent materials. The capacities of the containment systems in each section are designed to be greater than 10% of the total liquid storage capacity in the drum storage areas. Since the characteristics of the stored wastes are known, no analysis are performed for the materials collected from the containment area. All collected materials are sent to a recycling

center for recycling/reclamation. The recovered materials that can not be effectively reclaimed at the recycle center will be, in turn, sent to a licensed facility for disposal

All drums are transported, moved, and stored carefully in an upright position. The route trucks are equipped with an electric hoist to assist loading/unloading. In the warehouse area, the immersion cleaner, mineral spirits dumpster mud drums, and dry cleaning waste drums are moved with 2-wheel hand trucks and stacked by hand. All drums will be elevated on pallets to eliminate the possiblity of drums standing in spilled solvent.

The drums are designed and constructed to be compatible with the stored material and to minimize the possibility of breakage and leaking, in accordance with DOT Shipping Container Specification Number 5B. Exhibits I.E.3-1 to I.E.3-2 show typical detailed construction specifications of the 16-gallon immersion cleaner drums.

The drum storage areas for spent solvents (Exhibits I.D.5-2a and I.D.502b) have capacity for holding 75,403 gallons (1,370 55-gallon drums or 4,712 16-gallon drums).

Drums and boxes will be double-stacked. Exhibits I.D.5-2a and I.D.5-2b show the configuration and stacking arrangements of containers.

Wastes are stored in nylon-lined boxes, polyethylene and steel drums. Since none of the waste handled by Safety-Kleen react with metal, nylon or polyethylene, compatibility is assured. Immersion cleaner, industrial wastes, paint wastes and dry cleaning waste drums are never opened at the branch. None of the wastes are incompatible; however, solvents are segregated for quality assurance purposes. Only mineral spirits is placed in red drums, only immersion cleaner in gray, only perchloroethylene in polyethylene drums or in boxes and only paint waste in black drums or pails.

All drum storage areas are located indoors. The drum storage containment systems consist of 4" x 6" concrete curbing, trenches and a sumps which prevent both run-on and run-off.

II.B.2. WASTE COMPATIBILITY

The solvents stored at this facility are not incompatible with each other, or with other materials handled at this facility, insofar as reactivity is concerned. However, they are the primary source of feed stock for regenerating the clean solvents. Separation of these used solvents is a standard practice at the Service Center.

All material at the Service Centers is managed in accordance with local fire protection code and fire department recommendation.

Drum storage configurations are shown of Exhibit I.D.5-2a and I.D.5-2b.

State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION



FOR ROUTING TO OTHER THAN THE ADDRESSEE					
To:	Location				
To:	LOCTN:				
То:	LOCTN:				
FROM:	DATE:				

RECEIVED

DEC 0 1 1986

Hazardous Wastel

TO:

Satish Kastury

FROM:

Armando Gonzalez

DATE:

November 26, 1986

SUBJECT:

Safety-Kleen Corp.

FLD 980 847 271, HC29-118986, Partial response to 4th

NOD

FLD 049 557 408, HF29-121717, completing response to 1st

NOD

Attached, please find two (2) different documents concerning the referenced applications. Letters dated November 18 and November 17, 1986 respectively.

AG/br

T. J. Rd

BEEN S YEM

COTT LIVER DE LA FRICT



November 18, 1986 EJJ 86-395

Mr. Armando Gonzales, Permitting Engineer Florida Dept. of Environmental Regulation Southwest District 7601 Highway 301 North Tampa, FL 33610

Re: Safety-Kleen Corp. FLD 980847271 Construction Permit Application HC29-118986 November 7, 1986 Notice of Defiency

Dear Mr. Gonzales,

The purpose of this letter is to describe the June 16, 1986 spill at our Tampa Service Center. The tanks were tested by the manufacturer in accordance with the specifications in the legend table on Exhibit I.E.3-5. Subsequent to their installation, but before their initial filling, the manways were removed to permit entry for installation of the tank gauges. Upon initial filling of one tank, it was found that the manway gasket was leaking. The tanks were being filled to begin routine operation of the facility, not as a testing procedure. This problem was corrected immediately.

As stated in the response to your September 25, 1986 N.O.D., Section I.E.4.a (8) of the original permit presents a time table and method for leak detection. Since the tanks are aboveground, any leaks will be evident (as noted during the June 16, 1986 incident).

Tanks will be hydraulically tested once every two years and a wall-thickness test will be done once every five years.

Exhibit I.E.4-l presents an inspection log, and emergency remedial actions are discussed in the Contingency Plan, Attachment I.E.2 of the permit.

3. LAND OWNER

THIS IS TO CERTIFY THAT I, AS LAND OWNER, UNDERSTAND THAT THIS APPLICATION IS SUBMITTED FOR THE PURPOSE OF OBTAINING A PERMIT TO CONSTRUCT, OPERATE, OR CLOSE A HAZARDOUS WASTE MANAGEMENT FACILITY ON THE PROPERTY AS DESCRIBED. FOR HAZARDOUS WASTE DISPOSAL FACILITIES, I FURTHER UNDERSTAND THAT I AM RESPONSIBLE FOR PROVIDING THE NOTICE IN THE DEED TO THE PROPERTY REQUIRED BY 40 CFR §264.120 AND §265.120, AS ADOPTED BY REFERENCE IN CHAPTER 17-30, FAC.

NAMEPhil Parker

(PLEASE TYPE)

MAILING ADDRESS

Parker Mechanical In

P.O. Box 95263

Madeira Street OR P.O. BOX

CITY STATE ZIP

(813) 360-5136 Nov. 13, 1986

TELEPHONE NO. DATE

FLORIDA REGISTRATION NUMBER: P.E. 020781 (TAMPA PLANT CLOSURE)

(Please Affix Seal)

CERTIFICATION

SAFETY-KLEEN CORP.
3-163-UI (OLD) TAMPA FL
CLOSURE
FLD 9808+727tp

1. OPERATOR

THIS IS TO CERTIFY THAT UNDER PENALTY OF LAW I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT, BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. FURTHER, I AGREE TO COMPLY WITH THE PROVISIONS OF CHAPTER 403, FLORIDA STATUTES, AND ALL RULES AND REGULATIONS OF THE DEPARTMENT OF ENVIRONMENTAL REGULATION. IT IS UNDERSTOOD THAT THE PERMIT IS ONLY TRANSFERABLE IN ACCORDANCE WITH SECTION 17-30.30, FAC, AND, IF GRANTED A PERMIT, THE DEPARTMENT OF ENVIRONMENTAL REGULATION WILL BE NOTIFIED PRIOR TO THE SALE OR LEGAL TRANSFER OF THE PERMITTED FACILITY.

SIGNATURE OF THE OPERATOR OR AUTHORIZED REPRESENTATIVE*

ORP V. P. Soles & Service

NAME AND TITLE (PLEASE TYPE OR PRINT)

DATE: June 18,86 TELEPHONE NO. 512) 426-9094

*ATTACH A LETTER OF AUTHORIZATION

2. FACILITY OWNER

THIS IS TO CERTIFY THAT I UNDERSTAND THIS APPLICATION IS SUBMITTED FOR THE PURPOSE OF OBTAINING A PERMIT TO CONSTRUCT, OPERATE, OR <u>CLOSE</u> A HAZARDOUS WASTE MANAGEMENT FACILITY ON THE PROPERTY AS DESCRIBED. AS OWNER OF THE FACILITY, I UNDERSTAND FULLY THAT THE FACILITY OPERATOR AND I ARE JOINTLY RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF CHAPTER 403, FLORIDA STATUTES, AND ALL RULES AND REGULATIONS OF THE DEPARTMENT OF ENVIRONMENTAL REGULATION.

* Charlette Yn . meeller
SIGNATURE OF THE FACILITY OWNER OR AUTHORIZED
REPRESENTATIVE*

Charlo He M. Mueller, Owner NAME AND TITLE (PLEASE TYPE OR PRINT)

DATE: Oct 2,1986 TELEPHONE NO. (813)870-2557

*ATTACH A LETTER OF AUTHORIZATION