

December 7, 2011

Certified Mail 70111570000241601680 Return Receipt Requested

Florida Department of Environmental Protection Hazardous Waste Regulation Section Mr. Merlin Russell Jr. 2600 Blair Stone Rd., Room 310D Tallahassee, FL 32399-2600

RE: Safety-Kleen Systems, Inc., Annual Recharacterization Program Information

Dear Mr. Russell:

The purpose of this correspondence is to provide the Department with information on Safety-Kleen's Annual Recharacterization Program (AR).

Every year, Safety-Kleen randomly samples more than two hundred containers of re-occurring industry specific waste that it collects and manages on a daily basis throughout the United States (i.e., "Core Wastes"). Specifically, these re-occurring wastes include:

- Safety-Kleen generated Core Waste branch contaminated debris and solvent storage tank bottoms; and,
- Customer generated Core Waste spent aqueous brake cleaning solution, immersion cleaner, parts washer solvent, automotive paint related waste, and dry cleaning waste (Perc and Naptha)

Samples are preserved and packaged in accordance with EPA SW-846 protocols and sent to an independent accredited 3rd party environmental laboratory for pH, flash point, and TCLP extracted metals/volatiles/semi-volatiles. Resulting data is coalesced for each Core Waste stream and evaluated in accordance with EPA SW-846 Chapter 9 statistical techniques for determining whether or not a spent material exhibits any RCRA hazardous characteristics.

The "statistically significant" waste codes derived from this analysis are the codes that Safety-Kleen expects to find from typical customers.

Safety-Kleen provides these codes and information on the AR process to generators so that they can use their site-specific information and this generic by statistically significant national Core

Mr. Merlin Russell Jr. Safety-Kleen Systems, Inc. December 7, 2011 Page No. 2

Waste information to determine the applicability of these codes to their wastes. Generators may use these codes as being representative of their waste stream, but only after applying "process knowledge"; i.e., confirmation that the generator's use is typical and that nothing has been added to the stream in their processes that would cause it to exhibit different waste codes than those identified by Safety-Kleen. Waste determinations and characterizations are clearly the legal responsibility of the waste generator under the state and federal environmental regulations (e.g., 40 CFR Parts 261 & 262).

Several enclosures pertaining to the AR Program are included as attachments to this letter and are meant to supplement our previous submittals to the Department regarding this relatively complex issue. These documents provide a more detailed explanation of the program than what can be included in the body of this letter; this additional information should answer most if not all of the remaining questions you may have about this program.

As discussed in our recent telephone conversation, the Safety-Kleen Tampa Facility Waste Analysis Plan (WAP) will be revised to include details of the AR Program and will then be resubmitted to the Department. Analytical data from the AR process can be found in the Safety-Kleen Tampa permit renewal application in Appendix B.

Thank you for the Department's time and attention to this important matter. If you have any questions, or require additional information, please do not hesitate to contact me. If needed, I have available to assist me our laboratory and statistical experts that would also be willing to meet with you to explain this AR Program and the attached document in greater detail (several of these internal SK experts have over 25 years of experience in implementing these SW-846 waste sampling, characterization, and statistical evaluation processes and can do more justice to these topics then can I). Again, please let me know if you need additional information regarding this issue. Thank you.

Sincerely,

Jeff Curtis

EHS Manager, Florida

Safety-Kleen Systems, Inc.

5610 Alpha Drive

Boynton Beach, FL 33426

jeff.curtis@safety-kleen.com

enclosures:

- (1) Statistical Analysis of Annual Waste Characterization Data
- (2) National Underlying Hazardous Constituents For 2010
- (3) 2011 Final Annual Recharacterization Waste Code Assignments National
- (4) Annual Waste Recharacterization Customer Letter

Statistical Analysis of Annual Waste Characterization Data

Prepared by Robert D. Gibbons Ph.D.

for

Safety Kleen July 23, 1998

1 Introduction

Since 1990, Safety-Kleen has undertaken a major analytical study each year to document the contaminants in some of its most common waste streams to determine which TCLP waste codes should appear on the manifest for that waste. This Annual Waste Recharacterization Program is both expensive and extensive. Upon review, it appeared that regulatory agency instructions for how to interpret the data might not have been in line with current policy, as reflected in SW846. The general approach is based on development of an upper 90% confidence limit for the true concentration of each constituent, which can in turn be directly compared to regulatory standards to determine if the waste code should or should not be added to a particular waste stream (e.g., Premium Gold Parts Washer Solvent 150). The regulatory basis for this type of comparison stems from U.S. EPA SW846 Chapter 9 (September 1986) guidance on determining if a waste stream is hazardous.² The primary complicating feature is the presence of large numbers of nondetects which raises serious question regarding the use of the parametric approach. In light of this concern, nonparametric methods are used throughout.³ Specifically, following U.S. EPA SW846, we construct a nonparametric 90% upper confidence limit (UCL) for the 50th percentile of the distribution (i.e., median), which is equivalent to the 90% UCL for the mean in the case of a symmetric distribution such as the normal distribution.

¹"Consequently, the CI employed to evaluate solid wastes is, for all practical purposes, a 90% interval." U.S. EPA SW846 (1986) chapter 9 page 6.

²"The upper limit of the CI for μ is compared with the applicable regulatory threshold (RT) to determine if a solid waste contains the variable (chemical contaminant) of concern at a hazardous level. The contaminant of concern is not considered to be present in the waste at a hazardous level if the upper limit of the CI is less than the applicable RT. Otherwise the opposite conclusion is reached. "U.S. EPA SW846 (1986) chapter 9 page 3

³"If the data do not adequately follow the normal distribution even after logarithm transformation, a nonparametric confidence interval can be constructed. This interval is for the median concentration (which equals the mean if the distribution is symmetric)." U.S. EPA Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, April 1989, page 6-8

2 Method

Following Chapter 9 of SW846, the 90% UCL for the mean concentration obtained from a series of *n* representative samples is to be compared to the appropriate regulatory standard to determine if the waste stream is hazardous. If the UCL exceeds the standard, the waste stream is considered hazardous. The applicant must compute the UCL that is appropriate for the specific distributional form of the data. Given the large number of nondetects for many of the constituents, it is difficult if not impossible to clearly identify the underlying distributional form of the data. In this case, the U.S. EPA guidance indicates that a nonparametric alternative should be used.⁴

Nonparametric confidence limits are derived as follows. Given an unknown $P \times 100$ th percentile of interest (e.g. the 50th percentile or median), where P is between 0 and 1, and n concentration measurements, the probability that any randomly selected concentration measurements being less than the $P \times 100$ th percentile is simply P and the probability of exceeding the $P \times 100$ th percentile is 1 - P. In light of this, the number of sample values falling below the $P \times 100$ th percentile out of a set of n measurements follows a Binomial distribution with parameters n and P.

The connection with the Binomial distribution can be used to determine an interval formed by a given pair of order statistics (i.e. ranked values) that will contain the percentile of interest, in this case the 50th percentile. Similarly, the Binomial distribution can also be used in constructing an upper limit (i.e. one-sided) for the percentile (e.g. a 90% upper confidence limit for the 50th percentile of the distribution). The computational formula for the cumulative binomial distribution B(x;n,p), representing the probability of getting x or fewer successes in n trials with success probability p is given by

$$Bin(x; n, p) \equiv \sum_{i=0}^{x} {n \choose i} p^{i} (1-p)^{n-i}$$

To draw inference regarding the P = 50th percentile, we set p = .5 in the previous equation. For a one-sided UCL we compute

$$1 - \alpha = 1 - Bin(U - 1; n, .5)$$

beginning from the sample median. We then increase U by one until in this case $1 - \alpha$ is equal to at least .90. The smallest value of U that provides $1 - \alpha \ge .9$ is then the order statistic (i.e., ranked value) that is the nonparametric 90% UCL for the 50th percentile of the distribution.

⁴ "If the data do not adequately follow the normal distribution even after logarithm transformation, a nonparametric confidence interval can be constructed." U.S. EPA, 1989

⁵ "This interval is for the median concentration (which equals the mean if the distribution is symmetric)." U.S. EPA (1989), page 6-8

3 Illustration

Consider the following most recent 50 data values for PCE (D039) obtained from Premium Gold Parts Washer Solvent-150.

Table 1
Premium Gold Parts Washer Solvent - 150
50 most recent samples in order of increasing concentration in ppm

<50.000	<1.000	< 0.100	< 0.100	< 0.100
< 0.100	< 0.100	< 0.100	< 0.100	< 0.100
< 0.100	0.110	0.200	0.200	0.220
0.230	0.260	0.510	0.870	0.880
1.000	1.300	1.500	1.800	2.000
2.700	2.700	3.300	5.400	7.000
7.100	12.000	12.300	17.200	19.700
20.000	20.000	21.200	23.600	32.300
51.100	52.500	136.000	211.000	286.000
508.000	635.000	771.000	940.000	2810.000

For n =50, p =.5 and 1 - α = .9, we find that U = 31 is the smallest order statistic that provides 90% confidence or more (1 - α = .941). As such, we select the 31st largest value in Table 1 which is 7.1 ppm as our UCL. Since 7.1 ppm is larger than the standard of 0.7 ppm, then the D039 waste code is required for this waste stream.

4 Conclusion

The data in the following package have been interpreted using the methodology described. The waste codes for each stream were determined as those parameters for which the 90% UCL for the median concentration was above the regulatory limit, based on review of the last two years of samples or the most recent 50 samples, whichever yielded the larger number of samples to consider.

12/1/2011

NATIONAL UNDERLYING HAZARDOUS CONSTITUENTS FOR 2010 (Based on Analytical Data from 2007 thru 2009)

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Immersion Cleaner (IC 699)	1,4-Dichlorobenzene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	Benzene	Cadmium	Chromium	Lead	o-Cresol	Pentachlorophenol	Silver	Tetrachloroethylene	Trichloroethylene		TO THE STREET CONTRACTOR OF THE STREET CONTRAC	A COMPANY OF THE PROPERTY OF T										tradiment in a destruction of the second destruction destruction of the second destruction of th										
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Branch Contaminated Debris	1,1-Dichloroethylene	1,2-Dichloroethane	1,4-Dichlorobenzene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dinitrotoluene	Acetone	Arsenic	Barium	Benzene	Cadmium	Carbon tetrachloride	Chlorobenzene	Chloroform	Chromium	Hexachlorobenzene	Hexachlorobutadiene	Hexachloroethane	Lead	m-Cresol	Mercury	Methyl ethyl ketone	Methyl isobutyl ketone	Nitrobenzene	o-Cresol	p-Cresol	Pentachlorophenol	Pyridine	Selenium	Silver	Tetrachloroethylene	Toluene	Trichloroethylene	Vinyl chloride	Xylenes
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NATIONAL UNDERLYING HAZARDOUS CONSTITUENTS FOR 2010 (Based on Analytical Data from 2007 thru 2009)

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2011 Final Annual Recharacterization Waste Code Assignments - National

	WASTE STREAMS		WASTE	CODE CHANGES - NATIONAL	_
2010 NATIONAL	General Description	2010 National Waste Codes	2011 National Waste Codes	Changes from 2010 to 2011	2011 NATIONAL
Profile/SKDOT 150629 / 839	Agueous Brake Cleaner	D039	D039	No Change	Profile/SKDOT 150100 / 839
150693 /16001 (Solid & Liq Mix), 150701 / 16012 (Solid - no D001), 150695 / 16003 (Liq)	·	F002, F003, F005, D001, D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D023, D024, D025, D026, D027, D028, D029, D030, D032, D033, D034, D035, D036, D037, D038, D039, D040, D041, D042, D043	·	No Change	150693 /16001 (Solid & Liq Mix), 150701 / 16012 (Solid - no D001), 150695 / 16003 (Liq)
150629 / 14952	Immersion Cleaner (IC 699)	D006, D008, D018, D027, D037, D039, D040, D042	D006, D008, D018, D027, D039, D040	Remove D037, D042	150629 / 950
150045 / 7008607, 150085 / 7008611(RQ)	Parts Washer Solvent 105 Virgin	D001, D039	D001, D039	Changed effective 6/19/2011 due to virgin being the only 105 solvent	150045 / 7008607, 150085 / 7008611(RQ)
150379 / 11657 (Bulk)	Parts Washer Solvents (Bulked) / Combination of 105 and 150 (Aqueous, where applicable)	D001, D018, D039, D040	D001, D018, D039, D040	No Change	150379 / 11657 (Bulk)
150378 / 11656	Parts Washer Solvent Sludge/Dumpster Mud	D001, D039	D001, D039	No Change	150378 / 11656
150633 / 15001	Parts Washer Solvent Tank Bottoms (bulk)**	D039, D040	D018 , D039, D040	Add D018	150633 / 6994701
150055 / 717	Parts Washer Solvent 150	D039	D039	No Change	150055 / 717
150055 / 717	PRF and PDF Mil Spec. Solvent	D039	D039	No Change	150055 / 717
150380 / 11658, 150425 / 12606(RQ)	Paint Gun Cleaner (SK)	F003, F005, D001, D018, D035, D039, D040	F003, F005, D001, D018, D035, D039, D040	No Change	150380 / 11658, 150425 / 12606(RQ)
150426 / 12607, 150427 / 12608(RQ)	Clear Choice Paint Gun Cleaner	F003, D001, D018, D035, D039, D040	F003, D001, D018, D035, D039, D040	No Change	150426 / 12607, 150427 / 12608(RQ)
150375 / 11653(ANY), 150376 / 11654(30), 150377 / 11655(55)	Paint Waste Other ***	F003, F005, D001, D018, D035, D039, D040	F003, F005, D001, D018, D035, D039, D040	No Change	150375 / 11653(ANY), 150376 / 11654(30), 150377 / 11655(55)
150589 / 14627	Dry Cleaner (Perc) Bottoms	F002, D007, D029, D039, D040	F002, D007, D029, D039, D040	No Change	150589 / 14627
150621 / 14906	Dry Cleaner (Perc) Filters	F002, D007, D029, D039, D040	F002, D007, D029, D039, D040	No Change	150621 / 14906
150591 / 14631	Dry Cleaner (Perc) Separator Water	F002, D029, D039, D040	F002, D029, D039, D040	No Change	150591 / 14631
150422 / 12565	Dry Cleaning Naphtha Bottoms	D001, D007, D039, D040	D001, D007, D039, D040	No Change	150422 / 12565
150424 / 12569	Dry Cleaning Naphtha Filters	D001, D007, D039, D040	D001, D007, D039, D040	No Change	150424 / 12569
150423 / 12566	Dry Cleaning Naphtha Separator Water	D001, D039, D040	D001, D039, D040	No Change	150423 / 12566
150696 / 16004	Aqueous Parts Washer Tank Bottoms	D039, D040	D039, D040	No Change	150696 / 16004
150626 / 14949	Aqueous Parts Washer Dumpster Sludge	NONE	NONE	No Change	150626 / 14949
		ttoms are SK-generated wastes f t this waste stream from non-SK	rom the cleanout of solvent stora generators.	ge tanks.	
***	SKDOT 11653 is accentable	to use for any size container of p	aint waste		
		30-gal paint waste to be listed se		A CONTRACT OF THE STREET,	
	*** **** **** **** **** **** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **	paint waste to be listed separatel			



Safety-Kleen Systems, Inc.

Year 2011 Annual Waste Recharacterization

Dear Customer.

Attached are the 2011 waste descriptions based on the Annual Waste Recharacterization for the waste streams Safety-Kleen manages as Hazardous Core Waste Streams. This data reflects the waste codes that we normally find in the management of these industry specific waste streams. The purpose of this memo is to clarify the reasoning behind our use of waste codes and the Annual Recharacterization process.

Under the hazardous waste management regulations, it is the generator's responsibility to describe hazardous waste prior to sending that waste for treatment or disposal. Safety-Kleen does not accept this responsibility on behalf of you, the generator. Once a waste stream is terminated at one of our facilities, however, Safety-Kleen does assume the generator's responsibility of that waste. In addition, because Safety-Kleen handles the same waste stream from many thousands of customers, we are able to provide those customers with information about the typical characteristics of their waste, which they can use as "Generator knowledge" in assigning waste codes.

This year, the quantitative analyses of the samples and statistical analyses of the resultant data in the Annual Recharacterization have determined that some waste codes be added or removed from certain waste streams. These waste code changes are included in the Annual Recharacterization based on the frequency at which they were detected at regulated levels in the analytical data.

If a generator chooses to use Safety-Kleen's Annual Recharacterization analysis as knowledge of its process, and uses a service that is consistent with the Recharacterization, then we accept the waste for termination as is. Safety-Kleen Compliance and Technical Center personnel will, however, have to approve customer specific waste codes, if a generator chooses to use its own knowledge of its process to identify which waste codes are attached to the waste. Laboratory analytical data will be required to remove codes determined by the Annual Recharacterization process. It is also highly recommended that the generator be able to back up any claims when inspected by a regulatory agency.

To offer the generator analytical data to back up their claim on which waste codes they feel should be attached to their solvent, Safety-Kleen has introduced cost effective services to screen many waste streams for typical waste codes found in the stream. This service is for customers that do not wish to use Safety-Kleen's Annual Recharacterization as a part of their generator knowledge. Waste codes can be removed from the paperwork if a certain code (or codes) is not found to be present and the generator has adequate analyses to back up the claim.

Attached to this letter you will find the waste code descriptions that will be used in 2011 based on Safety-Kleen's Annual Recharacterization. Should you have any questions, please call the Branch Manager at the phone number listed on your service document. Thank you for trusting Safety-Kleen as your partner in waste management.

Sincerely,

(name) Branch Manager