



SOLVENT-CONTAMINATED WIPES RULE IN KS

- Became effective at the federal level January 2014.
- Kansas Policy BWM 2013-P2, "Solvent-Contaminated Wipes" allows generators to follow this federal rule in Kansas now (signed December 2013).
- Technical Guidance Document (TGD) HW-1995-G2, "Solvent-Contaminated Wipes" explains the rule and was revised May 2015.

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SOLVENT-CONTAMINATED WIPES RULE IN KS

- Reusable wipes managed under this rule:
 - Are excluded from the definition of solid waste (do not require a hazardous waste determination);
 - Do not count toward the generator status (counting of wastes).

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SOLVENT-CONTAMINATED WIPES RULE IN KS

- Disposable wipes managed under this rule:
 - Are excluded from the definition of hazardous waste (do require a hazardous waste determination);
 - Do not count toward the generator status (counting of wastes).

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SOLVENT-CONTAMINATED WIPES RULE IN KS Recordkeeping (continued)

Description of how the "no free

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liquids" condition is satisfied. This must include a description of all technologies, methods, sampling, or knowledge that the generator is using to ensure that wipes sent to handlers contain no free liquids.



SOLVENT-CONTAMINATED WIPES RULE IN KS

- Free Liquids
 - If free liquids occur at the generating facility, they should be removed and properly managed, and would count toward the generator's hazardous waste status.

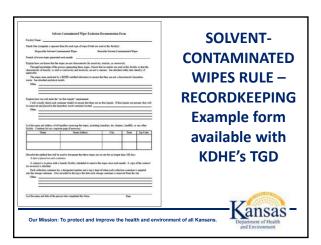
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 If free liquids occur at a handling facility, they should be removed and properly managed and would count toward the handler's hazardous waste status.

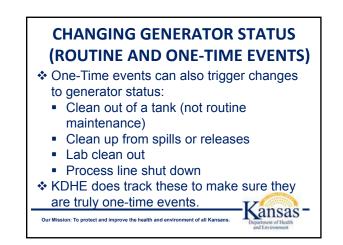
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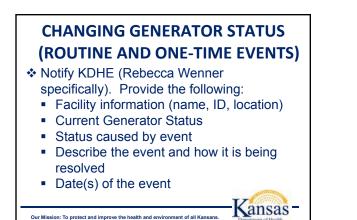
SOLVENT-CONTAMINATED WIPES RULE IN KS Important notes about the rule in Kansas: KDHE acknowledges that zipping plastic bags will hold free liquids and can be used adequately to hold wipes. If you are sending disposable wipes to a landfill, make sure that landfill has a synthetic liner. Acceptable Kansas landfills are listed in our TGD.

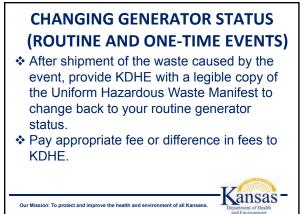
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CHANGING GENI (ROUTINE AND O ◆ Permanent changes are made using the Notification of Regulated Waste Activity Form 8700-12.	
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USED OIL REQUIREMENTS Used oil (UO) is not a hazardous waste as Lang as it is required. Therefore it does not

- Used oil (UO) is not a hazardous waste as long as it is recycled. Therefore it does not count towards your HW generator classification.
- Containers and above-ground tanks of UO must be marked with the words "Used Oil" and maintained in good condition.
- Must use a transporter registered with KDHE unless you are transporting 55-gallons or less of your own used oil to an aggregation point or collection center.

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USED OIL REQUIREMENTS Can burn any of the following in an on-site space heater: UO generated on-site or by sister facility (a long as no more than 55 gallons is self-transported). UO from do-it-yourselfers On-spec UO from any source Space heater must meet the following: Maximum capacity of 0.5 million Btu/hour; Combustion gases vented to the ambient air;

USED OIL REQUIREMENTS Burning in a space heater (Continued): On-specification UO can be accepted from offsite, but must have been tested to show that it meets these criteria before burning in a space heater: USED OIL FUEL SPECIFICATIONS Constituent/Property Allowable Level Arsenic 5 ppm maximum Cadmium .. 2 ppm maximum Chromium ... 10 ppm maximum . 100 ppm maximum 100 minimum Lead Flash point 4.000 ppm maximum Total Halogen (If > 1,000 ppm halogens, then only on-spec if rebuttable presumption is met) ansas Our Mission: To protect and improve the health and environment of all Kansar





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AEROSOL CAN PUNCTURING

- If done in a closed and self-contained unit (such as a drum top unit), KDHE considers this an exempt form of hazardous waste treatment.
- KDHE considers the waste drained from the aerosol cans to be a newly generated waste, and therefore the drum accumulating this liquid waste can be a satellite accumulation container.
- The emptied cans can be recycled or disposed (unless they contained P-listed waste).

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ELECTRONIC WASTE

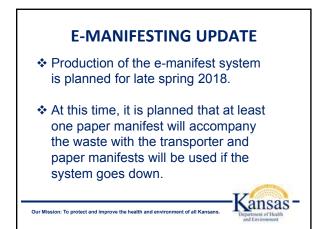
- There is no landfill ban in Kansas for electronic waste.
- KDHE has not adopted federal e-waste rules.
- KDHE has used grants to encourage the building of an e-waste recycling infrastructure in Kansas.

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E-MANIFESTING UPDATE Generators will be able to view their own information at any time. The public will be able to access information on all shipments after 90 days have passed from the receipt of the shipments at designated facilities. Kansas-Our Mission: To protect and improve the health and environment of all Kansa

UNIVERSAL WASTE

- Universal waste (UW) is a subset of hazardous waste.
- · Kansas follows EPA rules for UW.

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• Lamps (fluorescent bulbs) cannot be deliberately crushed if they are going to be managed as UW.

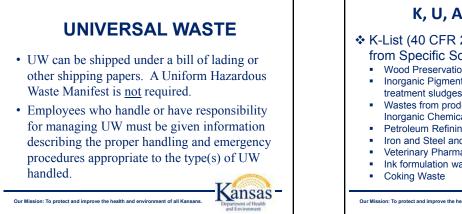
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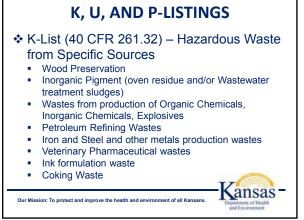




UNIVERSAL WASTE	UNIVE
 UW batteries, mercury-containing equipment, and lamps, must be labeled: "Universal Waste"; or "Waste"; or "Used". Fill in the blank with: Batteries, mercury-containing equipment (or mercury thermostats), or lamps. UW pesticides must be labeled either: "Universal Waste – Pesticides"; or "Waste Pesticides". 	 Must document to UW by: Dating each coning (such as on a pall) Date the accumute Maintain a writter
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UNIVERSAL WASTE Must document the accumulation time of the UW by: Dating each container or the group of containers (such as on a pallet); or Date the accumulation area; or Maintain a written inventory or log









F001-F005 LISTINGS

- F001 (T) The following spent halogenated solvents used in degreasing: Tetrachloroethylene, trichloroethylene, methylene chloride, 11, 4trichloroethane, carbon tetrachloride, and chlorinated fluorocarbons; all spent solvent mixtures/bields used in degreasing containing, before use, a total of the intervence of the above halogenated solvents or those solvent solvent is listed in F002, F043, and F005, and SIID bottoms from the recovery of these spent solvents and spent solvent instrumes/bields. F042, r10-The following spent halogenated solvents: 12, structures there is an ethylene chloride, trichloroethylene, 11, Hirchloroethane, ofthod-all koncentane, into-exercise, 12, struchloros122, structures, 10, and chlorostoms, as a total chlorostome, as a total chlorostome.
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- spent solvent mixtures Kansas

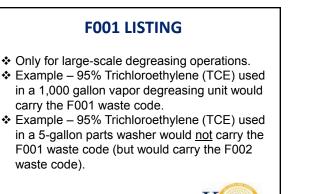
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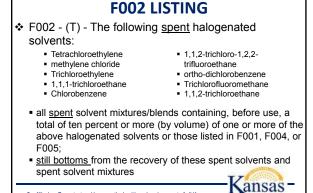
F001 LISTING

F001 - (T) - The following spent halogenated solvents used in degreasing: Tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1trichloroethane, carbon tetrachloride, and chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures ansas-

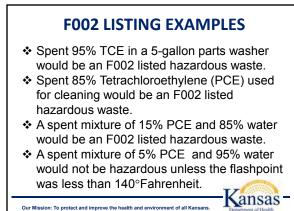
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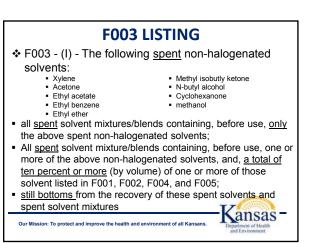


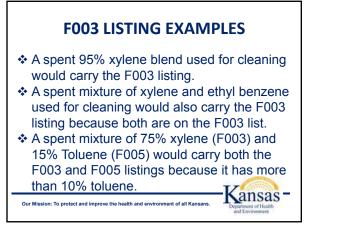
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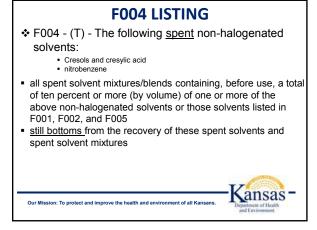


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F005 LISTING

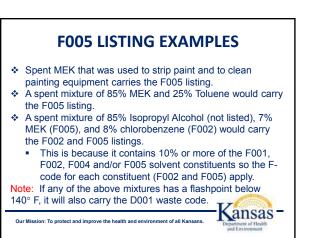
F005 - (I, T) - The following <u>spent</u> non-halogenated solvents: Pryidine Toluene Benzene

Methyl ethyl ketone (MEK)

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- Carbon disulfide Isobutanol
- 2-ethoxyethanol 2-nitropropane
- All spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above non-halogenated solvents or those solvents listed in F001, F002, or F004;
- still bottoms from the recover of these spent solvents and spent solvent mixtures:











spent solvent from cleaning the lines and tips is poured into a 5-gallon bucket outside the same paint booth.

- The waste paint (55-gallon drum) is a characteristic hazardous waste (flash is <140°F)
- The spent solvent (5-gallon bucket) is a listed hazardous waste with waste codes D001 and F005.

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OTHER F-LISTING EXAMPLES

- Same example, but the spent solvent is poured into the 55-gallan drum instead of being managed separately:
 - The waste paint and spent solvent carries waste codes D001 and F005.
- Paint filters from the process above would not be a listed hazardous waste (and are probably not characteristic hazardous waste) as long as the paint guns are not sprayed into the filters deliberately during the cleaning process (considered unlawful disposal of the spent solvent).

SOLVENT DISTILLATION (ON-SITE)

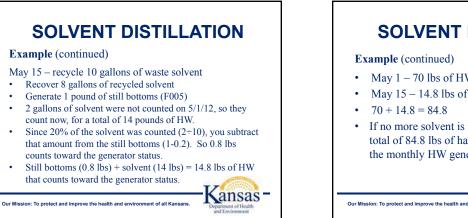
- · Waste accumulated prior to distillation:
 - Counts towards generator status
 - Is subject to all container management requirements
- Waste placed directly in a distillation unit without prior accumulation:
- Does not count towards generator status
- Is not subject to container management requirements







BOLLVEINT DISTILLATION Example (assume solvent is 7 lbs/gallon and F005) May 1 – recycle 10 gallons of waste solvent Recover 8 gallons of recycled solvent Generate 1 pound of still bottoms (F005) A total of 70 lbs of HW counts towards generator status 2 gallons of new solvent are added to the distilled solvent so that a total of 10 gallons of solvent can be used in the process.



SOLVENT DISTILLATION May 1 – 70 lbs of HW counted May 15 – 14.8 lbs of HW counted If no more solvent is recycled this month, then a total of 84.8 lbs of hazardous waste counts toward the monthly HW generation rate. Kansas-Our Mission: To protect and improve the health and environment of all Kans













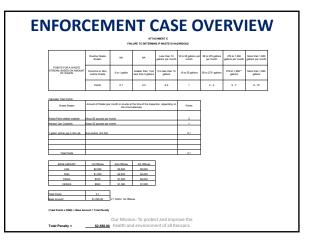


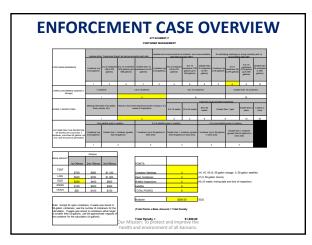






	Inspector Violation #	Matrix Number	Violation Summary	Penalty Range/ Calculation	Penalty Assessed	
1	1	2	Failure to determine if a waste is hazardous waste in violation of 40 CFR 262.11.	Attachment E	\$2,550	
2	2	17	Failure to retain waste determination documents for three years in violation of 40 CFR 262.40 (c).	\$100 - \$5,000	\$100	
3	3		Failure to count hazardous waste paint and thinner prior to recycling in violation of 40 CFR 261.5(d)(2).	\$500 - \$2,000	\$500	
4	4 and 5, 6, 7, 8		Failure to comply with container management requirements in violation of 40 CFR 262.34(a)(2) and 40 CFR 262.34(a)(3), 40 CFR 262.34(c)(1)(ii) as modified by K.A.R. 28-31-262(c)(7), 40 CFR 265.73(a), and 40 CFR 265.15(d).	Attachment F	\$1,600	
5	9	34	Failure to post location of spill control material in violation of 40 CFR 282.34(d)(5)(ii)(B).	\$100 - \$10,000	\$100	
6	10 and 11	36	Failure to conduct annual hazardous waste training in violation of 40 CFR 262.34(d)(5)(iii) and K.A.R. 28-31- 262ardt/(1)(B).	\$1,000 - \$10,000	\$2,000	
7	12	80	Failure to mark containers of used oil with the words "used oil" in violation of 40 CFR 279.22(c).	\$100 - \$5,000	\$100	
8	13	81	Failure to clean up and properly manage a release of used oil in violation of 40 CFR 279.22 (d)(3).	\$100 - \$5,000	\$100	
				TOTAL PENALTY:	\$7,050	





ENFORCEMENT CASE OVERVIEW

Settlement Options

- Settlement policy available on-line
- Will depend on size of facility, type of action, compliance history, etc.
- Penalties go up for repeat offenses, settlement options go down.

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All enforcement cases result in another inspection within 2-3 years. That is how we verify if our program is effective.

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OUTREACH – COMPLIANCE TRAINING MANUAL

- This document is aimed at KSQGs and SQGs that have few, if any, environmental staff.
- Explains the regulations and requirements, but also breaks compliance down into steps and provides tracking guides to aid in compliance.
- Once completed, it helps determine who at the facility needs to be trained, and provides a mechanism for that training.

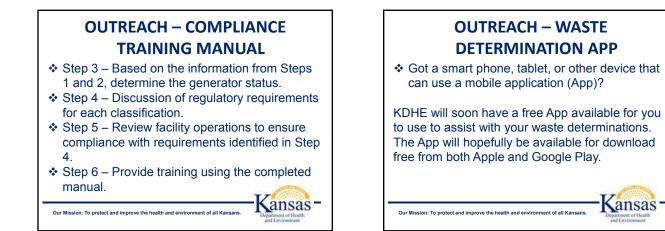
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OUTREACH – COMPLIANCE TRAINING MANUAL

- Step 1 Provides forms to list all waste streams generated at the facility, how much is generated, are they hazardous or not, where are they accumulated around the facility and who is responsible for each accumulation point.
- Step 2 Figure out how much hazardous waste is generated at the facility.

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