

<u>SUBJECT</u>		<u>DATE</u>
1448. Definitions of Inactive Portion, Active Portion and Closed Portion of a RCRA TSDF		AUG 12, 2021
1449. Dangerous Waste Designations and Dangerous Waste Code Determinations		AUG 19, 2021
1450. Method Detection Limits and Hazardous Waste Determinations	ENCORE	AUG 26, 2021
1451. Method Detection Limits and Hazardous Waste Determinations II	ENCORE	SEP 2, 2021
1452. Totals Analysis vs. TCLP and Dividing by 20	ENCORE	SEP 9, 2021
1453. Decharacterized RCRA Waste - Manifesting and LDR Reporting	ENCORE	SEP 16, 2021
1454. Decharacterized Hazardous Waste Listed Solely for Non-Toxic Characteristics	ENCORE	SEP 23, 2021
1455. Decharacterized Wastes and the LDR Dilution Prohibition	ENCORE	SEP 30, 2021
1456. The "Derived from Rule", the "Mixtures Rule", and the "Contained-In Policy"	ENCORE	OCT 7, 2021
1457. Hazardous Debris and Options to Exclude as a Dangerous Waste		OCT 14, 2021
1458. Regulatory Status of Characteristic Baghouse Dust Destined for Reclamation		OCT 21, 2021
1459. RCRA Point of Generation and Baghouse Dust Collection Systems		OCT 28, 2021
1460. Pumps Containing Liquid Hazardous Wastes and Liquids in Landfill Prohibition	ENCORE	NOV 4, 2021
1461. Pumps Containing Liquid Hazardous Waste and Land Disposal Restrictions	ENCORE	NOV 11, 2021
1462. Pumps Containing Liquid Hazardous Wastes and RCRA Empty Containers		NOV 18, 2021
1463. Multiple Characteristic Hazardous Waste Codes and Underlying Hazardous Constituents	ENCORE	NOV 23, 2021
1464. LDR Notifications/Certifications and Generator Permitted Treatment, Storage, or Disposal Facility	ENCORE	DEC 2, 2021
1465. Multiple Characteristic and Listed Hazardous Waste Codes and the "in lieu of" LDR Principle	ENCORE	DEC 9, 2021
1466. Universal Wastes - Recycling versus Disposal	ENCORE	DEC 16, 2021
1467. 'Twas the Night Before Christmas – The Twenty-Eighth Edition		DEC 24, 2021
1468. Spent Lead Acid Batteries vs., Universal Wastes	ENCORE	DEC 30, 2021
1469. Hazardous Debris and Radioactively Contaminated Cadmium Batteries	ENCORE	JAN 6, 2022
1470. Hazardous Debris and Radioactively Contaminated Lead-Acid Batteries	ENCORE	JAN 13, 2022
1471. Mercury Wet Cell Batteries - Debris or Not Debris	ENCORE	JAN 20, 2022
1472. Hazardous Debris and Non-Radioactive Lead Acid Batteries	ENCORE	JAN 27, 2022
1473. Hazardous Debris and LDR High/Low Mercury Subcategories	ENCORE	FEB 3, 2022
1474. Central Accumulation Areas and the ≤90-day Time Frame	ENCORE	FEB 10, 2022
1475. Central Accumulation Areas with Satellite Accumulation		FEB 17, 2022
1476. Definition of RCRA Empty Tank	ENCORE	FEB 24, 2022
1477. RCRA Empty Acutely Hazardous Waste Containers	ENCORE	MAR 3, 2022
1478. The RCRA Definition of Acute Hazardous Waste		MAR 10, 2022

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TWO MINUTE TRAINING

TO: CENTRAL PLATEAU CLEANUP COMPANY

FROM: PAUL W. MARTIN, RCRA Subject Matter Expert
CPCCo Environmental Protection, Hanford, WA

SUBJECT: THE RCRA DEFINITION OF ACUTE HAZARDOUS WASTE

DATE: MARCH 10, 2022

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TWO MINUTE TRAINING

SUBJECT: The RCRA Definition of Acute Hazardous Waste

Q: In last week's "Two Minute Training" (2MT), it stated that acutely hazardous waste codes are identified by the hazard code "H". In terms of the Federally listed waste codes, where in 40 CFR is this acutely hazardous, hazard code defined and to which waste codes does it apply?

A: [40 CFR 261.11\(a\)\(2\)](#) states that a waste listed in accordance with the following criteria will be designated as an acute hazardous waste if:

"It has been found to be fatal to humans in low doses or, in the absence of data on human toxicity, it has been shown in studies to have an oral LD 50 toxicity (rat) of less than 50 milligrams per kilogram, an inhalation LC 50 toxicity (rat) of less than 2 milligrams per liter, or a dermal LD 50 toxicity (rabbit) of less than 200 milligrams per kilogram or is otherwise capable of causing or significantly contributing to an increase in serious irreversible, or incapacitating reversible, illness. (Waste listed in accordance with these criteria will be designated Acute Hazardous Waste.)"

To determine which hazardous waste codes have been designated as acute hazardous waste, see [40 CFR 261.30\(b\)](#) [[WAC 173-303-9904](#)] and the basis for listing a hazardous waste. If a waste code has a hazard code of "H", the waste is an acute hazardous waste. A review of the "F", "K", "U" and "P" listings indicates that all "P" listed wastes are acutely hazardous wastes, i.e., "Absence of a letter indicates that the compound only is listed for acute toxicity" ([40 CFR 261.33\(e\)](#), *Comment*). F020, F021, F022, F023, F026, and F027, commonly referred to as the dioxin waste codes, are also acutely hazardous wastes as indicated by the letter "H" in the "Hazard code" column at [40 CFR 261.31\(a\)](#). There are currently no acutely hazardous wastes in the "K" or "U" listings or the characteristic waste codes, D001 through D043. Note that the criteria for identifying the characteristics of hazardous waste at [40 CFR 261.10](#), does not include an acutely hazardous waste criterion.

SUMMARY:

- Waste listed in accordance with the criteria at 40 CFR 261.11(a)(2) are designated as Acute Hazardous Waste.
- The Hazard Code "H" indicates which waste listed codes are acutely hazardous wastes, and includes all "P" listed waste codes and the six "F" listed dioxin waste codes.
- "U" and "K" listed waste codes and all the characteristic waste codes are not identified as acutely hazardous wastes.

Excerpts from 40 CFR 261.10, 261.11 and 261.30 are attached to the e-mail. If you have any questions, please contact me at [Paul W. Martin@rl.gov](mailto:Paul.W.Martin@rl.gov) or at (509) 376-6620.

TWO MINUTE TRAINING - ATTACHMENT

SUBJECT: The RCRA Definition of Acute Hazardous Waste

40 CFR 261.10 Criteria for identifying the characteristics of hazardous waste

(a) The Administrator shall identify and define a characteristic of hazardous waste in subpart C only upon determining that:

(1) A solid waste that exhibits the characteristic may:

(i) Cause, or significantly contribute to, an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or

(ii) Pose a substantial present or potential hazard to human health or the environment when it is improperly treated, stored, transported, disposed of or otherwise managed; and

(2) The characteristic can be:

(i) Measured by an available standardized test method which is reasonably within the capability of generators of solid waste or private sector laboratories that are available to serve generators of solid waste; or

(ii) Reasonably detected by generators of solid waste through their knowledge of their waste.

40 CFR 261.11 Criteria for listing hazardous waste.

(a) The Administrator shall list a solid waste as a hazardous waste only upon determining that the solid waste meets one of the following criteria:

(1) It exhibits any of the characteristics of hazardous waste identified in subpart C.

(2) It has been found to be fatal to humans in low doses or, in the absence of data on human toxicity, it has been shown in studies to have an oral LD 50 toxicity (rat) of less than 50 milligrams per kilogram, an inhalation LC 50 toxicity (rat) of less than 2 milligrams per liter, or a dermal LD 50 toxicity (rabbit) of less than 200 milligrams per kilogram or is otherwise capable of causing or significantly contributing to an increase in serious irreversible, or incapacitating reversible, illness. (Waste listed in accordance with these criteria will be designated Acute Hazardous Waste.)

(3) It contains any of the toxic constituents listed in appendix VIII and, after considering the following factors, the Administrator concludes that the waste is capable of posing a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported or disposed of, or otherwise managed:

TWO MINUTE TRAINING -ATTACHMENT

SUBJECT: The RCRA Definition of Acute Hazardous Waste

40 CFR 261.30 General.

- (a) A solid waste is a hazardous waste if it is listed in this subpart, unless it has been excluded from this list under §§260.20 and 260.22.

- (b) The Administrator will indicate his basis for listing the classes or types of wastes listed in this subpart by employing one or more of the following Hazard Codes:

- Ignitable Waste..... (I)
- Corrosive Waste..... (C)
- Reactive Waste..... (R)
- Toxicity Characteristic Waste..... (E)
- Acute Hazardous Waste..... (H)**
- Toxic Waste..... (T)

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