

<u>SUBJECT</u>		<u>DATE</u>
1320.	Treated Hazardous Waste Used as Dust Suppressant	FEB 28, 2019
1321.	Decharacterized RCRA Waste - Manifesting and LDR Reporting	ENCORE MAR 7, 2019
1322.	Decharacterized Hazardous Waste Listed Solely for Non-Toxic Characteristics	ENCORE MAR 14, 2019
1323.	Decharacterized Wastes, ≤90-Day Accumulation Time Limits and LDR Storage Prohibition	ENCORE MAR 21, 2019
1324.	Decharacterized Wastes and the LDR Dilution Prohibition	ENCORE MAR 28, 2019
1325.	PCB Decontamination Standard with No Decontamination Performed	ENCORE APR 4, 2019
1326.	PCB Manifest Relief a.k.a., When is a PCB Manifest Not Required?	ENCORE APR 11, 2019
1327.	PCB Manifest Relief a.k.a., When is a PCB Manifest Not Required? – The Sequel	ENCORE APR 18, 2019
1328.	PCB Concentrations and Micrograms per Centimeters Squared (µg/cm ²)	ENCORE APR 25, 2019
1329.	Operating Record vs. Operating Log	ENCORE MAY 2, 2019
1330.	Operating Records Not Referenced in the “Operating Record” Regulations	ENCORE MAY 9, 2019
1331.	Washington State Used Oil and Mixtures with Other Materials	ENCORE MAY 16, 2019
1332.	Used Oil Filter Regulation – The Feds vs. Washington State	ENCORE MAY 23, 2019
1333.	Printed Circuit Board Recycling – Shredded vs. Whole	ENCORE MAY 30, 2019
1334.	Universal Waste Alkaline Batteries and Self-Transportation	ENCORE JUN 6, 2019
1335.	Universal Waste Lithium Batteries and Self-Transportation	ENCORE JUN 13, 2019
1336.	RCRA Hazard Labeling – A Random Scenario	ENCORE JUN 20, 2019
1337.	Regulatory Status of Chromated, Copper, Arsenate, (CCA) Wood as Wood Mulch	ENCORE JUN 27, 2019
1338.	Unused Paraformaldehyde - U Listed Hazardous Waste or Not?	ENCORE JUL 3, 2019
1339.	The Hazardous Waste Characteristic of Reactivity (D003)	ENCORE JUL 11, 2019
1340.	Central Accumulation Areas and Signage Requirements	ENCORE JUL 18, 2019
1341.	RCRA EPA Identification Numbers – Site Specifics	ENCORE JUL 25, 2019
1342.	RCRA EPA Identification Numbers – Transporters	ENCORE AUG 1, 2019
1343.	Paint Wastes and the Applicability of the F001-F005 Listings to Ingredients	ENCORE AUG 8, 2019
1344.	F Listings and Ingredients in Commercial Chemical Product Formulations	ENCORE AUG 15, 2019

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TWO MINUTE TRAINING

TO: CH2M HILL PLATEAU REMEDIATION COMPANY

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

SUBJECT: F LISTINGS AND INGREDIENTS IN COMMERCIAL CHEMICAL PRODUCT FORMULATIONS

DATE: AUGUST 15, 2019

CHPRC Projects	CH PRC - Env. Protection	MSA	Hanford Laboratories	Other Hanford Contractors	Other Hanford Contractors
Richard Austin Tania Bates Rene Catlow Richard Clinton Larry Cole Laura Cusack John Dent Lorna Dittmer Stuart Hildreth Mike Jennings Stephanie Johansen Sasa Kosjerina Melvin Lakes Richard Lipinski Stuart Mortensen Dave Richards Phil Sheely Connie Simiele Jeff Westcott	Jeff Bramson Bob Bullock Frank Carleo Bill Cox Jeanne Elkins Ryan Fischer Jonathan Fullmer Ted Hopkins Barry Lawrence Jim Leary Diane Leist Mitch Marrott Stewart McMahand Brian Mitcheltree Anthony Nagel Linda Petersen Fred Ruck Sean Sexton Dave Shea Ray Swenson Kat Thompson Wayne Toebe Eric Trotta Daniel Turlington Dave Watson	Brett Barnes Michael Carlson Mike Demiter Kip George Jerry Cammann Jeff Ehliis Garin Erickson Panfilo Gonzalez Jr. Dashia Huff Mark Kamberg Jon McKibben Saul Martinez Matt Mills Carly Nelson Michelle Oates Eric Pennala Jon Perry Christina Robison Christian Seavoy David Shaw John Skoglie Lana Strickling Greg Sullivan	(TBD) DOE RL, ORP, WIPP Mary Beth Burandt Duane Carter Al Farabee Tony McKarns	Bill Bachmann Dean Baker Scott Baker Lucinda Borneman Paul Crane Tina Crane Ron Del Mar John Dorian Mark Ellefson Darrin Faulk Rob Gregory James Hamilton Andy Hobbs Ryan Johnson Megan Lerchen Mike Lowery Michael Madison Terri Mars Cary Martin Grant McCalmant Steve Metzger Tony Miskho Tom Moon Chuck Mulkey Kirk Peterson	Dan Saueressig Joelle Moss Glen Triner Greg Varljen Julie Waddoups Jay Warwick Ted Wooley

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TWO MINUTE TRAINING

SUBJECT: F Listings and Ingredients in Commercial Chemical Product Formulations

Q: In last week's Two Minute Training (2MT), we learned that the hazardous waste F listings do not apply to solvents used as ingredients in commercial chemical product (CCP) formulations such as paint. Since the original manufacturer created the CCP formulation consisting of certain ingredients, does that mean if an end-user adds toluene as a thinner to the paint, the paint could be F listed when discarded because someone other than the manufacturer altered the original CCP formulation?

A: Per an EPA guidance memorandum ([RO 14005](#)) dated December 24, 1996:

"As you have correctly pointed out, chemicals that are reactants or ingredients in the formulation of commercial chemical products are not regulated as spent solvents, and the products themselves are not covered. This policy applies even to commercially-purchased products to which solvents have been added by the end user for viscosity adjustment, even if an unused portion of the adjusted product is later discarded." [Emphasis added.]

The above guidance was to correct a statement found in a Solvents Study ([EPA530-R-96-017](#)) dated August 29, 1996, that **incorrectly** stated on page 2:

"It is important to note, however, that solvents added as a thinner to product paints and coatings after purchase are being used for their solvent properties and, after use, will meet any applicable spent solvent listings".

EPA quickly clarified in the December 24, 1996, guidance memo:

"Such use is an example of addition of a solvent to modify a commercial chemical product and is thus, according Agency policy, not a regulated solvent use."

Therefore, manufacturers and end-users can add solvents to CCPs such as paint and the paint would not become subject to the F listings since the solvents are ingredients in a CCP formulation.

SUMMARY:

- Solvents used for their solvent properties are subject to the F listings.
- Solvents used as ingredients in CCPs such as paints, are not subject to the F listings.
- Manufacturers or end users can add solvents to CCPs as ingredients and the F listings do not apply.

The December 24, 1996, EPA guidance letter is attached to the e-mail. If you have any questions, contact me at [Paul W Martin@rl.gov](mailto:Paul_W_Martin@rl.gov) or at (509) 376-6620.

FROM: Paul W. Martin

DATE: 8/15/19

FILE: 2MT\2019\081519.rtf

PG: 1

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TWO MINUTE TRAINING – ATTACHMENT

SUBJECT: F Listings and Ingredients in Commercial Chemical Product Formulations

RO 14005

9441.1996(13)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
SOLID WASTE AND EMERGENCY RESPONSE

December 24, 1996

Mr. Norman H. Nosenchuck, Director
Division of Solid and Hazardous Materials
New York State Department of Environmental Conservation
50 Wolf Road
Albany, New York 12233-7250

Dear Mr. Nosenchuck:

Thank you for your letter of November 18, 1996 in which you asked about the Agency's recent Solvents Study. Specifically, you wanted to know if solvents added to a paint or similar product are to be classified as regulated spent solvents based on what is printed in the Solvents Study.

The Agency regulates chemicals as spent solvents based on "solvent use," such as the ability to dissolve, mobilize, or solubilize constituents, or to be a reaction or synthesis medium (See 50 FR 53316, December 31, 1985). As you have correctly pointed out, chemicals that are reactants or ingredients in the formulation of commercial chemical products are not regulated as spent solvents, and the products themselves are not covered. This policy applies even to commercially-purchased products to which solvents have been added by the end user for viscosity adjustment, even if an unused portion of the adjusted product is later discarded.

The sentence on page 3 of the Solvents Study that states, "It is important to note, however, that solvents added as a thinner to product paints and coatings after purchase are being used for their solvent properties and, after use, will meet any applicable spent solvent listings" is incorrect. Such use is an example of addition of a solvent to modify a commercial chemical product and is thus, according to Agency policy, not a regulated solvent use. Please note that this erroneous sentence also appears on page 4 of the Listing Determination Background Document that accompanied the Agency's August 14, 1996 spent solvents listing determination proposal (61 FR 42318 - 42354). The Agency will make the necessary changes in the documents in response to comments and when a final listing determination is published. In the meantime, our staff has added your letter and our response to the docket for both the listing determination proposal and for the Solvents Study.

You should be aware that addition of a spent solvent to a product should be monitored to make sure that the generator of the waste is not doing so to escape regulation. As an authorized state, you have the authority to make that determination.

Thank you for your letter. Should there be any additional questions, please have your staff contact Ron Josephson of my staff at (703)308-8890 or josephson.ron@epamail.epa.gov.

Sincerely,

David Bussard, Director
Hazardous Waste Identification Division

FROM: Paul W. Martin

DATE: 8/15/19

FILE: 2MT\2019\081519.rtf

PG: 2

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